

List of Patents Abstracted.

ENGLISH PATENTS.

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232,979	584	241,456	721	247,541	64	249,845	599	252,005	241	253,875	107	255,475	942
233,353	1	241,461	133	247,542	952	249,847	226	252,012	93	253,876	6	255,482	448
235,564	100	241,462	674	247,565	99	249,860	748	252,017	448	253,877	268	255,492	176
235,874	154	241,463	674	247,582	595	249,871	290	252,018	402	253,887	721	255,493	868
235,883	268	241,487	633	247,583	595	249,880	303	252,019	357	253,889	340	255,501	775
236,218	8	241,489	376	247,584	595	249,883	572	252,020	115	253,906	727	255,803	21
236,539	105	241,496	406	247,585	595	249,884	674	252,029	360	253,908	881	255,811	29
237,230	105	241,716	133	247,587	595	249,886	35	252,110	234	253,911	828	255,818	695
237,276	17	241,724	334	247,588	618	249,890	617	252,152	66	253,918	894	255,819	688
237,617	2	241,727	52	247,612	241	249,891	617	252,160	144	253,919	751	255,837	564
237,899	26	241,728	570	247,629	229	250,167	948	252,162	785	253,920	338	255,839	829
237,912	60	241,730	66	247,632	460	250,180	344	252,165	300	253,925	142	255,846	269
238,223	240	241,756	367	247,641	605	250,194	302	252,167	145	253,946	860	255,857	180
238,230	81	241,764	521	247,643	465	250,211	841	252,173	1	253,947	254	255,861	829
238,511	35	241,797	358	247,644	457	250,227	180	252,182	808	253,950	892	255,863	330
238,870	81	245,092	382	247,646	338	250,230	670	252,193	857	253,953	495	255,865	958
239,206	239	245,107	172	247,655	306	250,241	470	252,203	340	254,268	849	255,884	528
239,495	103	245,127	392	247,657	407	250,246	702	252,207	735	254,278	369	255,886	348
239,884	133	245,129	339	247,665	619	250,250	347	252,210	190	254,287	357	255,887	348
240,415	36	245,131	189	247,676	180	250,251	650	252,212	348	254,288	385	255,900	901
240,440	246	245,152	365	248,007	628	250,265	532	252,310	162	254,294	837	255,904	653
240,475	24	245,165	470	248,011	820	250,266	659	252,318	140	254,299	832	255,905	645
240,485	176	245,418	100	248,012	561	250,267	765	252,320	658	254,302	605	255,909	746
241,169	123	245,422	580	248,319	60	250,274	830	252,344	138	254,303	883	255,923	49
241,214	948	245,474	58	248,336	303	250,525	147	252,360	70	254,310	29	256,189	109
241,568	88	245,476	640	248,339	59	250,538	531	252,361	805	254,340	360	256,190	26
241,576	389	245,716	447	248,360	682	250,554	13	252,362	241	254,674	506	256,192	721
241,590	165	245,717	447	248,372	176	250,562	655	252,364	371	254,676	522	256,193	419
241,889	859	245,745	227	248,375	103	250,563	859	252,366	288	254,679	370	256,205	869
241,898	492	245,753	223	248,376	35	250,574	430	252,367	367	254,691	369	256,211	132
242,233	71	245,757	332	248,377	629	250,575	599	252,369	503	254,693	432	256,225	459
242,242	103	245,758	469	248,394	544	250,576	324	252,373	434	254,695	247	256,241	880
242,274	186	245,759	475	248,698	76	250,577	670	252,378	334	254,697	644	256,242	670
242,306	325	245,764	468	248,711	583	250,581	259	252,382	905	254,701	433	256,243	165
242,620	101	245,768	263	248,712	63	250,583	689	252,384	775	254,707	33	256,258	333
242,623	162	245,785	557	248,726	532	250,599	77	252,385	241	254,708	551	256,272	837
242,635	81	245,790	438	248,729	756	250,607	197	252,388	555	254,709	161	256,601	415
242,951	80	245,792	448	248,746	658	250,617	473	252,390	598	254,713	614	256,622	909
242,975	251	245,801	732	248,752	110	250,692	156	252,394	259	254,720	746	256,634	195
242,978	369	246,098	234	248,759	597	250,693	59	252,399	555	254,724	890	256,643	114
242,986	287	246,118	490	248,766	597	250,697	172	252,405	115	254,725	318	256,923	901
243,000	80	246,126	490	248,767	565	250,909	697	252,602	959	254,726	748	256,942	930
243,006	528	246,127	684	248,781	328	250,925	66	252,661	599	254,729	122	256,950	80
243,015	110	246,128	555	248,782	563	250,928	226	252,673	533	254,731	258	256,979	497
243,026	101	246,142	733	248,791	550	250,935	47	252,676	770	254,742	550	256,987	141
243,030	495	246,156	69	249,067	195	250,942	119	252,677	527	254,743	380	257,221	528
243,031	305	246,168	796	249,086	694	250,947	304	252,679	583	254,747	813	257,222	457
243,038	110	246,181	646	249,087	95	250,948	595	252,683	689	254,748	236	257,229	85
243,325	29	246,183	363	249,088	95	250,955	572	252,693	107	254,755	946	257,243	916
243,339	356	246,168	776	249,101	563	250,956	361	252,694	373	254,756	116	257,250	835
243,350	579	246,474	202	249,111	7	250,968	743	252,702	897	254,757	943	257,257	291
243,353	337	246,480	109	249,113	789	250,985	914	252,707	829	255,014	306	257,259	251
243,356	74	246,482	39	249,122	848	250,985	914	252,708	819	255,029	745	257,261	753
243,373	375	246,484	344	249,123	337	250,990	522	252,710	829	255,030	474	257,274	639
243,383	302	246,485	556	249,139	668	251,229	125	252,713	619	255,042	580	257,582	915
243,384	341	246,487	303	249,141	184	251,244	244	252,715	148	255,043	316	257,609	592
243,666	7	246,490	469	249,147	647	251,264	695	252,745	838	255,047	316	257,613	627
243,675	237	246,491	722	249,152	95	251,267	440	252,747	76	255,050	32	257,620	450
243,694	492	246,498	254	249,155	805	251,268	256	252,747	76	255,053	329	257,622	379
243,711	115	246,501	507	249,156	741	251,270	742	253,069	533	255,067	786	257,633	694
243,735	340	246,507	650	249,160	324	251,271	850	253,085	82	255,068	17	257,879	241
243,743	337	246,526	733	249,465	107	251,290	755	253,090	863	255,072	743	257,881	245
243,744	13	246,809	252	249,474	11	251,294	675	253,094	756	255,073	299	257,885	533
243,758	292	246,827	75	249,475	352	251,295	176	253,118	618	255,079	921	257,891	785
244,053	98	246,834	684	249,484	785	251,336	805	253,122	481	255,086	771	257,893	207
244,068	303	246,837	472	249,489	360	251,637	771	253,128	235	255,087	497	257,896	786
244,076	316	246,840	326	249,493	695	251,644	772	253,131	835	255,092	942	257,900	572
244,104	295	246,842	507	249,497	348	251,651	924	253,139	800	255,103	448	257,906	467
244,107	673	246,867	647	249,501	740	251,652	836	253,477	519	255,113	144	257,917	555
244,109	2	246,870	647	249,510	42	251,931	117	253,488	550	255,114	47	257,924	745
244,111	352	246,874	800	249,515	573	251,932	116	253,489	578	255,118	141	257,925	699
244,122	326	247,174	552	249,519	645	251,942	75	253,498	34	255,406	428	257,940	461
244,130	297	247,178	460	249,526	869	251,951	80	253,499	99	255,411	721	257,947	431
244,134	364	247,187	329	249,530	350	251,959	726	253,507	696	255,417	848	257,954	531
244,405	79	247,211	329	249,538	560	251,964	544	253,519	85	255,418	959	257,955	449
244,413	338	247,217	601	249,549	650	251,965	544	253,520	187	255,426	48	258,035	165
244,417	17	247,219	556	249,554	303	251,968	325	253,531	260	255,428	673	258,102	30
244,424	224	247,224	520	249,555	74	251,969	645	253,540	218	255,429	646	258,109	5
244,435	115	247,225	521	249,560	431	251,970	519	253,542	828	255,447	770	258,219	659
244,426	257	247,227	409	249,566	116	251,982	805	253,547	184	255,453	103	258,222	930
244,437	17	247,228	409	249,569	259	251,985	114	253,554	872	255,456	892	258,225	6
244,431	369	247,229	440	249,573	538	251,996	800	253,562	674	255,460	172	258,237	861
244,446	472	247,519	492	249,834	909	251,997	550	253,865	553	255,469	732	258,242	491

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258,243	482	260,232	942	260,974	613	261,954	99	262,629	109	263,410	141	264,442	528
258,246	606	260,233	210	260,986	302	261,959	164	262,613	118	263,422	577	264,460	625
258,261	740	260,236	907	260,990	560	261,975	244	262,644	169	263,443	128	264,464	601
258,276	881	260,242	539	261,009	306	261,976	80	262,651	115	263,445	160	264,480	482
258,408	13	260,244	583	261,048	573	261,990	75	262,652	96	263,450	127	264,490	602
258,471	31	260,248	2	261,051	85	261,991	75	262,666	134	263,462	138	264,495	523
258,500	900	260,279	510	261,055	94	262,016	116	262,668	128	263,463	138	264,508	572
258,553	903	260,283	345	261,060	80	262,017	171	262,678	109	263,473	215	264,510	481
258,560	257	260,288	419	261,077	181	262,020	93	262,693	104	263,503	237	264,520	601
258,563	648	260,294	555	261,080	81	262,023	63	262,723	658	263,517	150	264,536	881
258,571	184	260,297	555	261,085	65	262,030	101	262,736	890	263,518	155	264,539	883
258,575	528	260,305	541	261,099	72	262,042	434	262,766	191	263,520	185	264,549	577
258,582	774	260,306	621	261,133	125	262,043	819	262,783	240	263,552	275	264,550	260
258,584	491	260,309	9	261,135	96	262,066	319	262,785	532	263,561	133	264,551	240
258,598	475	260,310	19	261,139	102	262,075	601	262,791	531	263,571	132	264,558	268
258,611	874	260,312	9	261,140	176	262,083	467	262,795	256	263,576	199	264,569	214
258,616	333	260,329	6	261,156	99	262,090	877	262,796	391	263,579	186	264,561	326
258,665	13	260,339	9	261,164	81	262,096	432	262,802	937	263,585	175	264,569	256
258,698	9	260,346	29	261,191	92	262,097	809	262,818	947	263,587	145	264,584	224
258,731	13	260,357	2	261,201	93	262,099	930	262,824	702	263,595	203	264,591	469
258,788	107	260,362	165	261,204	61	262,103	240	262,826	878	263,623	189	264,596	214
258,835	911	260,366	17	261,211	95	262,110	366	262,830	936	263,630	175	264,601	228
258,836	934	260,374	103	261,218	65	262,120	541	262,832	125	263,636	150	264,631	326
258,837	168	260,382	29	261,240	93	262,126	783	262,833	151	263,642	194	264,610	214
258,846	596	260,387	32	261,241	94	262,127	783	262,834	273	263,644	195	264,673	230
258,847	688	260,397	32	261,262	141	262,131	612	262,840	129	263,650	174	264,674	230
258,849	664	260,398	6	261,267	100	262,136	912	262,849	186	263,659	134	264,682	230
258,854	518	260,447	13	261,290	99	262,153	560	262,870	128	263,660	176	264,708	248
258,856	465	260,451	16	261,322	95	262,154	699	262,878	151	263,670	207	264,711	221
258,870	603	260,453	26	261,333	904	262,155	669	262,890	209	263,674	208	264,724	218
258,872	189	260,455	35	261,344	658	262,157	71	262,901	127	263,686	180	264,777	241
258,875	31	260,456	15	261,356	619	262,159	109	262,902	128	263,693	206	264,783	406
258,896	435	260,460	61	261,377	316	262,161	159	262,918	107	263,704	175	264,788	560
258,901	764	260,491	16	261,388	555	262,179	119	262,938	144	263,728	390	264,791	541
258,905	176	260,493	60	261,395	705	262,181	133	262,958	102	263,739	626	264,795	501
258,908	767	260,501	34	261,496	823	262,192	80	262,959	180	263,732	320	264,797	573
258,918	606	260,511	34	261,422	870	262,195	110	262,961	166	263,765	602	264,799	591
258,919	406	260,514	7	261,440	83	262,202	171	262,987	216	263,766	443	264,803	746
258,921	409	260,535	2	261,446	65	262,206	79	262,988	123	263,773	869	264,804	573
258,923	141	260,536	17	261,448	71	262,223	110	262,989	123	263,774	943	264,814	928
258,924	571	260,544	838	261,449	79	262,224	110	263,014	171	263,794	805	264,823	483
258,929	944	260,545	565	261,450	181	262,232	110	263,018	101	263,801	694	264,830	869
258,930	521	260,550	564	261,455	90	262,239	171	263,021	128	263,817	867	264,832	912
258,933	974	260,552	482	261,459	101	262,243	101	263,028	149	263,838	719	264,838	832
258,936	332	260,565	169	261,472	119	262,254	71	263,034	107	263,844	518	264,846	805
258,938	287	260,568	179	261,490	98	262,270	104	263,046	173	263,845	870	264,849	561
258,939	92	260,575	484	261,491	76	262,278	133	263,047	171	263,853	757	264,863	366
258,945	5	260,577	869	261,494	70	262,285	116	263,052	129	263,856	705	264,865	607
258,946	9	260,597	734	261,502	80	262,289	116	263,070	128	263,857	882	264,890	264
258,949	2	260,620	757	261,510	63	262,294	110	263,076	155	263,877	669	264,916	246
258,947	6	260,621	412	261,517	95	262,301	125	263,081	660	263,879	742	264,919	239
258,947	30	260,637	610	261,520	93	262,302	100	263,082	836	263,886	188	264,920	239
258,948	328	260,638	39	261,522	85	262,306	74	263,088	553	263,893	500	264,921	210
258,950	659	260,639	36	261,528	80	262,320	107	263,102	746	263,897	203	264,922	240
258,950	287	260,640	36	261,542	71	262,328	206	263,108	561	263,898	183	264,929	218
258,952	666	260,642	103	261,559	74	262,352	171	263,123	225	263,922	188	264,931	240
258,952	503	260,646	46	261,568	69	262,363	134	263,124	524	263,923	224	264,936	247
258,943	43	260,647	40	261,575	63	262,364	125	263,132	800	263,924	175	264,937	248
258,949	19	260,650	103	261,589	85	262,369	126	263,133	367	263,932	385	264,938	239
258,949	2	260,652	52	261,592	81	262,371	118	263,142	734	263,933	356	264,935	252
258,951	1	260,653	47	261,594	66	262,382	510	263,155	925	263,938	247	264,955	254
258,955	99	260,661	43	261,617	64	262,383	443	263,169	840	263,939	217	264,960	268
258,951	26	260,666	34	261,642	65	262,386	461	263,171	583	263,942	402	264,969	421
258,959	99	260,669	33	261,647	74	262,394	524	263,186	695	263,946	211	264,978	257
258,982	2	260,672	47	261,664	63	262,397	554	263,194	702	263,975	190	264,988	240
258,989	295	260,676	36	261,692	356	262,403	300	263,195	655	264,021	184	265,024	258
258,990	256	260,681	138	261,693	454	262,404	428	263,197	804	264,039	208	265,029	269
258,991	431	260,682	41	261,700	392	262,408	652	263,201	378	264,050	200	265,032	340
258,996	893	260,684	45	261,707	660	262,413	412	263,206	129	264,064	203	265,033	259
258,990	829	260,686	39	261,708	430	262,423	398	263,207	144	264,079	176	265,036	225
258,993	393	260,691	32	261,722	556	262,433	561	263,213	236	264,110	225	265,046	356
258,993	779	260,699	35	261,731	320	262,440	916	263,221	141	264,116	683	265,047	256
258,961	572	260,704	44	261,732	365	262,445	784	263,222	186	264,124	733	265,055	248
258,967	784	260,720	64	261,740	319	262,447	522	263,231	577	264,128	544	265,070	240
258,968	426	260,741	32	261,747	597	262,455	556	263,248	185	264,129	319	265,077	356
258,969	70	260,743	47	261,764	809	262,456	677	263,260	216	264,130	287	265,113	258
258,977	669	260,745	64	261,770	869	262,457	772	263,269	133	264,139	528	265,124	365
258,983	449	260,760	65	261,792	473	262,463	659	263,275	147	264,143	796	265,125	745
258,985	689	260,776	32	261,793	811	262,464	719	263,284	128	264,169	547	265,126	329
258,989	869	260,789	46	261,794	552	262,468	528	263,303	128	264,192	842	265,127	928
260,002	132	260,830	40	261,807	99	262,470	392	263,307	135	264,201	226	265,133	927
260,020	99	260,833	45	261,809	80	262,477	361	263,311	156	264,205	226	265,141	440
260,034	31	260,835	46	261,814	76	262,491	126	263,322	152	264,233	214	265,162	659
260,045	1	260,872	165	261,819	115	262,492	257	263,331	157	264,237	207	265,190	778
260,055	8	260,882	56	261,822	105	262,494	124	263,340</					

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265,323	265	266,209	317	267,234	538	268,316	605	269,305	682	270,356	464	271,555	571
265,324	249	266,211	340	267,235	538	268,321	545	269,319	575	270,358	504	271,564	544
265,331	296	266,214	305	267,236	375	268,323	805	269,321	448	270,371	636	271,567	545
265,336	264	266,224	301	267,240	694	268,375	743	269,324	682	270,375	474	271,569	560
265,341	625	266,225	330	267,241	694	268,385	937	269,341	584	270,386	542	271,578	621
265,349	244	266,237	299	267,246	365	268,411	412	269,344	524	270,387	541	271,580	561
265,358	240	266,236	740	267,253	369	268,420	408	269,345	682	270,428	518	271,589	671
265,374	514	266,291	495	267,263	390	268,426	416	269,361	575	270,429	625	271,597	561
265,375	245	266,296	909	267,317	367	268,429	468	269,377	472	270,433	635	271,601	548
265,378	269	266,305	753	267,358	392	268,437	558	269,384	531	270,440	542	271,602	550
265,382	240	266,335	524	267,359	357	268,447	576	269,397	131	270,446	518	271,606	569
265,416	265	266,344	839	267,364	356	268,455	472	269,416	531	270,453	527	271,626	569
265,417	252	266,389	452	267,366	360	268,474	719	269,474	881	270,461	511	271,633	547
265,427	317	266,396	288	267,369	689	268,505	473	269,480	897	270,465	511	271,634	544
265,435	245	266,397	331	267,386	357	268,537	437	269,499	936	270,496	484	271,662	569
265,449	241	266,401	333	267,396	678	268,542	578	269,505	583	270,503	511	271,685	561
265,455	295	266,402	351	267,410	377	268,547	469	269,513	849	270,505	515	271,692	545
265,462	239	266,405	316	267,426	352	268,552	473	269,516	661	270,509	623	271,707	544
265,461	206	266,410	316	267,428	365	268,597	490	269,519	703	270,514	492	271,721	574
265,494	254	266,411	344	267,433	390	268,599	400	269,560	897	270,529	512	271,725	714
265,533	432	266,415	344	267,437	379	268,613	468	269,576	795	270,537	623	271,726	561
265,540	409	266,418	341	267,463	974	268,616	448	269,583	742	270,541	515	271,740	548
265,541	917	266,420	334	267,464	512	268,633	412	269,605	473	270,553	632	271,765	548
265,545	773	266,435	304	267,470	699	268,637	400	269,610	503	270,559	522	271,767	548
265,548	753	266,436	295	267,480	511	268,654	148	269,624	461	270,612	541	271,777	613
265,558	500	266,437	331	267,504	850	268,655	426	269,625	481	270,626	931	271,780	545
265,562	927	266,466	520	267,518	877	268,658	432	269,647	507	270,644	948	271,798	660
265,563	785	266,468	349	267,534	869	268,663	543	269,655	466	270,649	901	271,799	545
265,577	552	266,487	320	267,536	813	268,665	433	269,660	507	270,703	866	271,805	867
265,597	265	266,524	333	267,539	503	268,682	449	269,661	482	270,727	552	271,824	690
265,600	797	266,539	380	267,543	639	268,718	643	269,677	527	270,729	890	271,847	878
265,624	907	266,561	325	267,548	776	268,721	688	269,678	503	270,754	959	271,899	805
265,629	927	266,565	370	267,560	849	268,722	832	269,689	467	270,770	568	271,907	867
265,639	251	266,584	643	267,561	544	268,736	604	269,693	533	270,772	516	271,916	610
265,641	325	266,586	645	267,580	671	268,744	663	269,711	468	270,778	518	271,921	561
265,642	257	266,607	317	267,588	392	268,745	867	269,714	512	270,779	518	271,940	573
265,643	328	266,615	320	267,590	369	268,779	947	269,745	636	270,809	541	271,942	551
265,644	413	266,622	306	267,592	415	268,780	779	269,749	402	270,820	522	271,948	562
265,669	409	266,635	323	267,620	583	268,791	947	269,770	493	270,822	565	271,958	639
265,672	541	266,640	295	267,625	419	268,798	560	269,771	448	270,824	627	271,969	571
265,674	287	266,645	338	267,633	387	268,817	652	269,774	689	270,826	521	271,979	561
265,677	258	266,658	302	267,681	433	268,832	710	269,776	481	270,810	518	272,003	640
265,679	242	266,662	607	267,687	415	268,845	521	269,777	560	270,852	515	272,024	597
265,685	328	266,664	640	267,693	363	268,851	413	269,778	481	270,869	530	272,026	594
265,697	328	266,683	592	267,704	370	268,853	452	269,779	555	270,883	520	272,047	639
265,714	304	266,684	963	267,721	364	268,868	443	269,780	555	270,900	529	272,053	555
265,727	248	266,711	557	267,723	575	268,877	437	269,790	512	270,901	634	272,065	560
265,733	303	266,719	801	267,724	770	268,889	457	269,806	509	270,921	547	272,067	561
265,767	325	266,729	645	267,736	419	268,890	458	269,828	493	270,930	627	272,092	592
265,769	429	266,735	906	267,768	428	268,891	437	269,845	812	270,948	515	272,109	591
265,771	287	266,744	877	267,776	357	268,893	444	269,866	831	270,957	536	272,111	640
265,777	349	266,771	325	267,784	603	268,899	436	269,878	842	270,974	527	272,113	572
265,787	305	266,775	333	267,788	419	268,907	457	269,908	745	270,976	548	272,130	591
265,827	302	266,777	106	267,808	372	268,933	438	269,917	650	270,987	553	272,142	609
265,831	423	266,789	334	267,815	365	268,950	721	269,921	718	270,988	521	272,151	591
265,833	256	266,800	330	267,840	575	268,952	438	269,925	956	270,989	521	272,152	897
265,841	287	266,803	338	267,858	433	268,959	472	269,952	504	271,016	522	272,163	909
265,847	253	266,809	323	267,893	892	268,966	452	269,959	499	271,018	516	272,165	746
265,856	287	266,813	406	267,912	607	268,979	472	269,960	475	271,023	518	272,173	736
265,857	298	266,820	349	267,925	828	268,980	728	269,961	467	271,027	898	272,195	758
265,859	314	266,824	348	267,952	772	268,986	584	269,967	466	271,035	801	272,209	863
265,865	315	266,825	695	267,954	571	268,989	723	269,970	469	271,042	595	272,214	970
265,880	299	266,830	579	267,986	775	268,990	449	269,971	407	271,043	914	272,261	639
265,910	426	266,837	352	267,990	468	269,004	721	269,973	496	271,088	847	272,266	639
265,941	797	266,893	408	267,996	408	269,012	473	269,974	484	271,108	750	272,274	612
265,950	914	266,905	339	267,999	417	269,028	522	269,975	484	271,127	621	272,279	594
265,984	740	266,920	320	268,004	719	269,031	473	269,979	482	271,130	544	272,288	621
265,989	900	266,939	333	268,006	402	269,037	684	269,985	495	271,146	561	272,301	693
265,996	745	266,940	321	268,011	365	269,046	450	269,993	466	271,149	563	272,316	639
266,004	807	266,950	320	268,024	358	269,052	434	269,994	514	271,169	571	272,319	639
266,009	432	266,951	345	268,043	432	269,064	719	270,003	515	271,173	694	272,320	606
266,028	305	266,967	376	268,047	416	269,068	629	270,009	515	271,177	595	272,321	598
266,033	302	266,975	579	268,051	432	269,071	575	270,013	484	271,181	550	272,325	639
266,040	302	266,983	320	268,080	468	269,090	433	270,035	492	271,199	847	272,326	606
266,041	306	266,985	338	268,104	409	269,104	575	270,036	665	271,203	525	272,329	639
266,045	338	266,996	691	268,138	426	269,118	722	270,040	481	271,221	565	272,368	639
266,047	303	267,013	406	268,155	461	269,124	533	270,046	503	271,236	564	272,376	595
266,068	303	267,018	331	268,158	128	269,127	635	270,052	503	271,254	613	272,376	615
266,069	314	266,024	337	268,163	671	269,154	873	270,060	490	271,264	564	272,380	609
266,075	319	267,038	357	268,188	432	269,155	828	270,066	466	271,282	560	272,384	607
266,097	639	267,041	373	268,200	415	269,164	907	270,075	475	271,291	544	272,433	595
266,098	319	267,058	373	268,201	415	269,174	814	270,091	507	271,293	561	272,567	619
266,100	320	267,071	386	268,204	411	269,188	930	270,099	464	271,316	523	272,570	622
266,101	314	267,074	646	268,219	420	269,199	856	270,104	530	271,327	594	272,572	

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272,733	601	273,528	694	274,521	745	275,341	784	276,214	801	276,953	912	278,061	917
272,741	615	273,556	695	274,527	745	275,345	828	276,216	807	277,042	908	278,069	955
272,748	601	273,578	698	274,538	740	275,357	776	276,221	803	277,048	937	278,075	956
272,754	621	273,622	704	274,540	740	275,359	786	276,249	819	277,051	984	278,078	913
272,766	614	273,636	654	274,550	810	275,364	780	276,251	827	277,071	970	278,086	921
272,788	605	273,647	963	274,562	742	275,373	776	276,268	800	277,082	912	278,093	907
272,822	644	273,660	748	274,573	740	275,374	776	276,280	819	277,083	984	278,100	902
272,829	595	273,671	818	274,578	735	275,377	772	276,295	907	277,085	983	278,102	901
272,830	595	273,718	897	274,581	756	275,392	786	276,382	865	277,089	964	278,105	897
272,831	595	273,776	669	274,584	717	275,404	801	276,390	848	277,091	872	278,112	903
272,832	595	273,779	659	274,610	741	275,421	771	276,392	854	277,098	860	278,116	905
272,833	595	273,781	645	274,611	841	275,444	784	276,393	837	277,109	938	278,118	897
272,834	595	273,788	659	274,627	742	275,448	780	276,395	873	277,110	938	278,120	909
272,835	595	273,810	704	274,653	740	275,449	786	276,400	831	277,111	860	278,131	904
272,841	896	273,819	659	274,690	745	275,454	793	276,401	831	277,112	832	278,145	916
272,842	877	273,820	650	274,693	753	275,459	777	276,407	867	277,125	837	278,156	896
272,855	690	273,830	746	274,700	742	275,463	777	276,408	809	277,129	866	278,159	897
272,858	690	273,832	661	274,722	756	275,536	821	276,410	835	277,163	839	278,164	881
272,859	801	273,841	653	274,741	755	275,573	928	276,417	851	277,166	832	278,167	942
272,860	824	273,848	708	274,742	757	275,652	956	276,427	836	277,170	847	278,177	896
272,925	957	273,855	658	274,763	741	275,655	905	276,435	824	277,185	831	278,207	897
272,970	652	273,883	653	274,784	735	275,678	823	276,438	815	277,194	862	278,211	922
272,972	606	273,886	688	274,786	736	275,681	768	276,440	851	277,206	836	278,214	895
272,976	653	273,923	648	274,795	745	275,706	801	276,441	851	277,210	849	278,235	900
272,981	670	273,985	614	274,797	917	275,724	808	276,450	812	277,211	970	278,236	895
272,982	650	273,986	658	274,834	858	275,735	822	276,455	835	277,214	836	278,263	896
272,986	765	273,976	659	274,918	748	275,735	786	276,471	867	277,215	836	278,299	896
272,996	602	273,989	703	274,919	748	275,752	812	276,475	832	277,251	970	278,395	948
273,007	655	273,991	790	274,940	747	275,769	827	276,481	908	277,256	866	278,398	913
273,011	964	273,999	645	274,942	768	275,763	829	276,483	862	277,273	868	278,399	901
273,017	681	274,000	872	274,949	763	275,772	816	276,518	851	277,275	837	278,411	942
273,025	727	274,003	688	274,952	767	275,778	800	276,522	868	277,277	965	278,415	912
273,029	790	274,007	660	274,955	755	275,779	801	276,527	921	277,359	878	278,417	902
273,031	655	274,008	660	274,958	767	275,781	783	276,530	867	277,391	874	278,434	931
273,043	617	274,016	912	274,959	741	275,785	786	276,532	868	277,394	868	278,437	912
273,045	690	274,142	755	274,960	772	275,788	816	276,542	825	277,398	869	278,444	925
273,046	651	274,146	708	274,966	773	275,791	785	276,543	836	277,400	888	278,447	944
273,092	688	274,155	756	274,968	789	275,795	811	276,557	842	277,404	930	278,450	935
273,093	652	274,156	697	274,974	792	275,813	822	276,563	921	277,411	871	278,454	912
273,101	689	274,164	763	274,976	768	275,828	785	276,571	808	277,419	899	278,463	903
273,103	644	274,175	743	274,981	754	275,813	826	276,594	831	277,434	887	278,465	898
273,168	658	274,178	840	274,999	772	275,819	801	276,597	816	277,467	882	278,474	919
273,169	599	274,187	766	275,002	753	275,858	790	276,610	881	277,476	889	278,485	897
273,224	646	274,196	701	275,011	756	275,862	822	276,703	850	277,517	863	278,578	937
273,228	695	274,197	701	275,021	766	275,881	806	276,705	970	277,537	848	278,767	955
273,229	929	274,208	705	275,044	815	275,891	810	276,709	878	277,540	907	278,768	928
273,263	859	274,211	743	275,090	761	275,897	816	276,715	862	277,541	912	278,774	927
273,346	658	274,225	760	275,092	768	275,911	804	276,723	866	277,546	863	278,777	956
273,347	648	274,226	697	275,099	753	276,007	836	276,727	831	277,572	888	278,788	939
273,349	670	274,233	705	275,104	780	276,048	819	276,728	831	277,577	882	278,814	934
273,351	645	274,259	714	275,116	749	276,065	867	276,730	847	277,586	992	278,815	946
273,352	647	274,263	701	275,120	741	276,066	815	276,736	867	277,716	873	278,818	954
273,354	745	274,266	776	275,158	956	276,100	812	276,743	847	277,721	872	278,821	938
273,355	789	274,276	840	275,277	797	276,112	815	276,753	867	277,722	935	278,851	943
273,364	695	274,283	753	275,281	806	276,120	814	276,757	841	277,723	916	278,881	935
273,373	655	274,286	739	275,283	772	276,121	873	276,766	837	277,734	905	278,882	928
273,386	649	274,297	701	275,284	828	276,126	808	276,767	837	277,756	860	278,885	949
273,389	644	274,300	756	275,286	774	276,132	827	276,768	837	277,769	876	278,891	946
273,406	747	274,303	697	275,292	800	276,146	815	276,797	850	277,774	892	278,930	927
273,414	661	274,311	718	275,301	772	276,154	872	276,807	831	277,798	882	278,932	948
273,420	658	274,328	711	275,304	786	276,155	815	276,820	831	277,817	896	278,938	928
273,440	653	274,331	774	275,307	776	276,156	809	276,823	850	277,819	930	278,940	928
273,457	659	274,333	756	275,313	807	276,181	866	276,860	858	277,833	871	278,955	942
273,474	684	274,355	756	275,316	800	276,185	816	276,864	884	277,869	894	278,985	928
273,475	689	274,357	757	275,321	772	276,190	785	276,874	847	277,912	896	278,997	927
273,477	655	274,366	714	275,326	812	276,196	800	276,877	873	278,032	912	279,156	942
273,481	665	274,387	757	275,328	792	276,200	784	276,887	832	278,037	902	279,159	955
273,493	696	274,401	740	275,329	792	276,206	963	276,911	847	278,039	902	279,219	942
273,499	689	274,404	741	275,333	801	276,208	819	276,921	818	278,041	930	279,273	943
273,506	745	274,405	705	275,334	807	276,210	819	276,947	900	278,047	903	279,280	948

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(Note.—The letter "R" indicates that a reissue of the patent is referred to.)

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1,255,878R	842	1,544,451R	370	1,597,964R	469	1,599,649R	377	1,599,825	6	1,600,573	234	1,601,786	6
1,346,188R	257	1,559,938R	592	1,598,672	11	1,599,650	26	1,599,833	7	1,600,762	1	1,601,787	15
1,420,477R	778	1,565,899R	173	1,598,831	6	1,599,650R	377	1,599,930	26	1,600,780	31	1,601,891	59
1,437,487R	85	1,568,512	122	1,599,072	6	1,599,681	2	1,599,952	162	1,600,784	2	1,601,897	11
1,456,701R	177	1,572,117R	82	1,599,363	11	1,599,701	17	1,599,963	7	1,600,845	7	1,601,938	11
1,456,580R	868	1,576,072	534	1,599,462	23	1,599,715	7	1,600,030	66	1,600,899	11	1,601,954	23
1,465,998R	901	1,587,646R	856	1,599,467	32	1,599,737	28	1,600,065	66	1,601,729	67	1,602,004	18
1,472,324R	380	1,592,078	736	1,599,613	32	1,599,777	7	1,600,203	17	1,601,741	6	1,602,014	32
1,505,161R	893	1,592,329R	596	1,599,618	11	1,599,797	32	1,600,375	6	1,601,771	67	1,602,062	19
1,507,059R	108	1,595,058	415	1,599,649	376	1,599,824	6	1,600,503	1	1,601,777	35	1,602,128	6

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1,602,162	27	1,604,574	45	1,606,624	173	1,608,700	74	1,610,399	162	1,613,299	181	1,615,247	253
1,602,163	26	1,604,575	45	1,606,698	67	1,608,706	82	1,610,465	122	1,613,306	180	1,615,260	190
1,602,183	60	1,604,576	45	1,606,699	67	1,608,738	83	1,610,485	166	1,613,334	168	1,615,286	182
1,602,190	35	1,604,577	45	1,606,752	114	1,608,741	134	1,610,523	184	1,613,335	168	1,615,287	207
1,602,212	35	1,604,581	47	1,606,767	107	1,608,775	169	1,610,539	212	1,613,341	166	1,615,303	301
1,602,249	17	1,604,630	43	1,606,788	96	1,608,808	204	1,610,560	116	1,613,352	181	1,615,343	680
1,602,253	9	1,604,641	36	1,606,827	89	1,608,822R	858	1,610,572	108	1,613,366	237	1,615,353	177
1,602,274	15	1,604,649	33	1,606,850	77	1,608,844	81	1,610,582	162	1,613,402	158	1,615,384	182
1,602,404	11	1,604,650	33	1,606,867	68	1,608,886	138	1,610,591	162	1,613,438	158	1,615,400	210
1,602,489	30	1,604,651	33	1,606,889	204	1,608,896	115	1,610,725	159	1,613,448	221	1,615,407	210
1,602,525	16	1,604,652	62	1,606,928	110	1,608,917	88	1,610,747	119	1,613,451	139	1,615,448	365
1,602,536	16	1,604,660	43	1,606,943	85	1,608,926	108	1,610,788	174	1,613,459	142	1,615,493	290
1,602,537	16	1,604,674	61	1,607,012	132	1,609,000	162	1,610,854	118	1,613,515	457	1,615,501	256
1,602,542	46	1,604,698	47	1,607,043	163	1,609,001	162	1,610,861	166	1,613,569	173	1,615,515	189
1,602,553	104	1,604,728	48	1,607,059	204	1,609,007	163	1,610,897	166	1,613,571	169	1,615,520	186
1,602,577	13	1,604,738	67	1,607,064	123	1,609,023	134	1,610,899	107	1,613,572	160	1,615,535	189
1,602,589	29	1,604,739	60	1,607,086	81	1,609,038	251	1,610,936	135	1,613,573	160	1,615,550	246
1,602,590	61	1,604,774	56	1,607,113	173	1,609,058	140	1,610,946	101	1,613,615	175	1,615,551	246
1,602,591	61	1,604,904	50	1,607,196	92	1,609,081	136	1,610,961	249	1,613,632	188	1,615,583	210
1,602,592	61	1,604,930	51	1,607,206	108	1,609,096	65	1,610,962	155	1,613,656	238	1,615,584	269
1,602,593	29	1,605,004	74	1,607,240	162	1,609,128	134	1,611,001	104	1,613,663	442	1,615,585	194
1,602,594	29	1,605,009	92	1,607,241	162	1,609,133	122	1,611,043	169	1,613,673	228	1,615,597	207
1,602,595	17	1,605,046	181	1,607,245	114	1,609,222	204	1,611,056	165	1,613,674	228	1,615,606	264
1,602,624	19	1,605,063	181	1,607,261	94	1,609,232	126	1,611,072	121	1,613,682	142	1,615,637	217
1,602,678	1	1,605,073	108	1,607,279	74	1,609,239	106	1,611,082	163	1,613,687	176	1,615,646	246
1,602,688	29	1,605,088	74	1,607,293	85	1,609,289	160	1,611,169	238	1,613,701	238	1,615,659	189
1,602,695	9	1,605,093	157	1,607,299	93	1,609,290	160	1,611,175	165	1,613,717	176	1,615,707	194
1,602,699	23	1,605,098	140	1,607,320	96	1,609,303	204	1,611,190	173	1,613,718	274	1,615,750	253
1,602,795	16	1,605,108	92	1,607,321	96	1,609,308	128	1,611,278	229	1,613,724	228	1,615,751	253
1,602,802	10	1,605,115	123	1,607,322	96	1,609,328	252	1,611,339	116	1,613,726	225	1,615,779	243
1,602,819	67	1,605,171	176	1,607,323	65	1,609,329	109	1,611,349	120	1,613,735	274	1,615,783	277
1,602,840	9	1,605,172	244	1,607,326	125	1,609,334	159	1,611,354	165	1,613,737	181	1,615,846	499
1,602,846	28	1,605,180	85	1,607,331	120	1,609,340	162	1,611,359	140	1,613,754	273	1,615,870	517
1,602,951	17	1,605,192	81	1,607,400	70	1,609,357	117	1,611,370	163	1,613,919	183	1,615,908	186
1,602,958	26	1,605,210	123	1,607,405	110	1,609,367	119	1,611,401	140	1,614,028	290	1,615,970	299
1,602,959	14	1,605,279	77	1,607,447	173	1,609,384	732	1,611,422	206	1,614,036	139	1,615,973	221
1,602,990	6	1,605,375	75	1,607,453	173	1,609,398	108	1,611,436	229	1,614,063	188	1,615,980	203
1,602,995	16	1,605,377	65	1,607,459	173	1,609,416	110	1,611,461	598	1,614,072	403	1,615,991	210
1,603,080	165	1,605,378	162	1,607,462	69	1,609,423	160	1,611,524	206	1,614,089	225	1,616,041	291
1,603,136	27	1,605,419	173	1,607,472	110	1,609,450	96	1,611,531	171	1,614,095	290	1,616,055	300
1,603,169	21	1,605,432	81	1,607,474	71	1,609,456	119	1,611,534	100	1,614,149	195	1,616,062	293
1,603,174	7	1,605,582	82	1,607,491	102	1,609,529	159	1,611,615	100	1,614,171	148	1,616,073	290
1,603,213	47	1,605,640	114	1,607,492	102	1,609,516	163	1,611,616	162	1,614,172	148	1,616,079	297
1,603,231	48	1,605,641	114	1,607,516	85	1,609,591	139	1,611,669	100	1,614,185	175	1,616,092	239
1,603,298	47	1,605,646	65	1,607,517	71	1,609,614	166	1,611,695	237	1,614,195	237	1,616,103	214
1,603,308	42	1,605,647	108	1,607,518	71	1,609,615	107	1,611,700	235	1,614,281	206	1,616,109	183
1,603,314	170	1,605,663	274	1,607,519	71	1,609,617	123	1,611,791	114	1,614,303	223	1,616,131	498
1,603,317	52	1,605,664	274	1,607,532	71	1,609,636	121	1,611,798	169	1,614,315	142	1,616,134	523
1,603,318	52	1,605,691	208	1,607,585	120	1,609,692	117	1,611,799	169	1,614,347	182	1,616,144	203
1,603,334	52	1,605,756	81	1,607,605	268	1,609,702	139	1,611,842	100	1,614,352	182	1,616,161	499
1,603,335	52	1,605,761	68	1,607,615	128	1,609,712	100	1,611,853	168	1,614,369	195	1,616,165	499
1,603,343	67	1,605,851	85	1,607,618	135	1,609,717	168	1,611,941	172	1,614,398	275	1,616,166	499
1,603,344	67	1,605,875	108	1,607,666	88	1,609,755	166	1,611,969	164	1,614,431	184	1,616,167	499
1,603,345	67	1,605,897	75	1,607,676	144	1,609,756	166	1,611,978	173	1,614,447	238	1,616,168	500
1,603,346	67	1,605,925	138	1,607,684	134	1,609,757	166	1,611,986	195	1,614,483	183	1,616,169	499
1,603,347	67	1,605,926	138	1,607,708	96	1,609,758	166	1,612,032	173	1,614,521	199	1,616,170	500
1,603,442	47	1,605,927	138	1,607,762	77	1,609,759	166	1,612,102	166	1,614,523	231	1,616,171	499
1,603,462	63	1,605,928	138	1,607,817	109	1,609,771	116	1,612,103	173	1,614,541	229	1,616,172	499
1,603,499	138	1,605,929	139	1,607,824	101	1,609,773	107	1,612,104	194	1,614,559	274	1,616,192	189
1,603,502	39	1,605,960	108	1,607,844	123	1,609,793	135	1,612,131	173	1,614,560	274	1,616,202	389
1,603,507	138	1,605,973	155	1,607,845	115	1,609,806	149	1,612,151	169	1,614,584	212	1,616,204	203
1,603,541	67	1,605,971	135	1,607,869	116	1,609,822	100	1,612,161	160	1,614,615	182	1,616,233	195
1,603,546	64	1,605,988	86	1,607,870	116	1,609,826	168	1,612,180	163	1,614,625	388	1,616,242	273
1,603,568	64	1,606,015	88	1,607,939	133	1,609,832	104	1,612,181	158	1,614,636	198	1,616,250	298
1,603,639	63	1,606,052	123	1,607,942	163	1,609,853	95	1,612,233	100	1,614,660	274	1,616,282	203
1,603,689	59	1,606,075	180	1,607,959	138	1,609,872	273	1,612,289	162	1,614,663	252	1,616,291	203
1,603,701	35	1,606,125	77	1,607,960	116	1,609,882	114	1,612,361	234	1,614,668	223	1,616,292	196
1,603,703	59	1,606,159	115	1,607,966	162	1,609,927	136	1,612,453	140	1,614,669	223	1,616,319	196
1,603,710	46	1,606,162	71	1,607,977	163	1,609,933	159	1,612,459	116	1,614,670	223	1,616,321	301
1,603,726	33	1,606,171	172	1,607,994	116	1,609,960	172	1,612,484	194	1,614,685	577	1,616,323	311
1,603,762	67	1,606,209	69	1,608,006	74	1,609,965	102	1,612,570	114	1,614,689	274	1,616,352	273
1,603,772	67	1,606,215	234	1,608,075	134	1,609,967	116	1,612,572	129	1,614,698	203	1,616,353	273
1,603,783	54	1,606,216	234	1,608,089	163	1,609,969	114	1,612,598	173	1,614,707	290	1,616,365	317
1,603,851	60	1,606,236	81	1,608,135	134	1,609,970	169	1,612,642	116	1,614,752	224	1,616,366	317
1,603,886	64	1,606,239	162	1,608,250	144	1,609,983	159	1,612,649	109	1,614,753	177	1,616,378	305
1,603,936	41	1,606,246	68	1,608,270	81	1,610,035	108	1,612,661	116	1,614,791	176	1,616,393	195
1,603,970	57	1,606,248	181	1,608,284	69	1,610,061	108	1,612,663	228	1,614,832	214	1,616,400	306
1,604,074	61	1,606,249	115	1,608,288	108	1,610,076							

No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.
1,616,904	218	1,618,371	374	1,620,815	352	1,622,651	370	1,624,385	719	1,626,171	438	1,627,648	491
1,616,904	301	1,618,372	374	1,620,838	385	1,622,671	437	1,624,401	381	1,626,208	435	1,627,691	542
1,616,918	214	1,618,413	249	1,620,843	353	1,622,681	454	1,624,446	530	1,626,223	433	1,627,692	512
1,616,936	305	1,618,414	249	1,620,860	296	1,622,690	469	1,624,466	734	1,626,248	415	1,627,693	542
1,616,994	306	1,618,415	249	1,620,873	337	1,622,695	383	1,624,559	449	1,626,263	583	1,627,694	542
1,617,001	314	1,618,416	248	1,620,877	337	1,622,722	770	1,624,599	406	1,626,292	682	1,627,725	534
1,617,014	350	1,618,494	331	1,620,880	370	1,622,731	733	1,624,625	403	1,626,321	460	1,627,738	627
1,617,060	268	1,618,501	316	1,620,886	382	1,622,737	357	1,624,637	360	1,626,345	400	1,627,780	449
1,617,071	466	1,618,512	251	1,620,899	356	1,622,751	678	1,624,638	372	1,626,346	623	1,627,841	624
1,617,072	466	1,618,563	215	1,620,900	356	1,622,790	358	1,624,644	402	1,626,360	575	1,627,859	717
1,617,073	467	1,618,566	245	1,620,915	367	1,622,809	727	1,624,674	375	1,626,362	452	1,627,861	717
1,617,074	466	1,618,572	296	1,620,938	362	1,622,826	684	1,624,675	380	1,626,392	627	1,627,862	717
1,617,081	464	1,618,615	323	1,620,940	352	1,622,879	357	1,624,692	578	1,626,398	733	1,627,863	717
1,617,083	207	1,618,669	517	1,620,972	388	1,622,883	329	1,624,711	718	1,626,418	722	1,627,868	465
1,617,098	218	1,618,762	325	1,620,982	352	1,622,894	390	1,624,723	708	1,626,437	450	1,627,881	460
1,617,161	225	1,618,767	339	1,621,038	389	1,622,941	386	1,624,724	534	1,626,438	472	1,627,900	491
1,617,166	221	1,618,789	314	1,621,071	323	1,622,969	682	1,624,749	358	1,626,439	472	1,627,921	732
1,617,182	318	1,618,795	364	1,621,094	380	1,622,961	321	1,624,778	403	1,626,454	529	1,627,935	715
1,617,201	245	1,618,818	339	1,621,121	389	1,622,974	585	1,624,810	380	1,626,454	407	1,627,937	616
1,617,206	225	1,618,824	378	1,621,143	371	1,622,977	390	1,624,811	380	1,626,466	432	1,627,938	516
1,617,208	270	1,618,831	252	1,621,188	376	1,622,991	459	1,624,812	541	1,626,485	450	1,627,939	452
1,617,212	217	1,618,835	388	1,621,195	292	1,623,005	469	1,624,845	371	1,626,535	575	1,627,963	734
1,617,237	211	1,618,865	216	1,621,222	351	1,623,017	351	1,624,848	578	1,626,558	429	1,627,971	449
1,617,244	325	1,618,931	269	1,621,270	329	1,623,018	357	1,624,857	705	1,626,562	460	1,627,977	522
1,617,255	223	1,618,960	370	1,621,298	323	1,623,025	357	1,624,889	578	1,626,577	414	1,627,982	441
1,617,255	233	1,619,016	264	1,621,311	344	1,623,040	353	1,624,930	625	1,626,579	454	1,628,000	678
1,617,285	223	1,619,022	299	1,621,319	296	1,623,061	673	1,624,944	527	1,626,588	404	1,628,012	527
1,617,288	350	1,619,025	337	1,621,338	310	1,623,070	457	1,625,058	577	1,626,623	723	1,628,035	499
1,617,305	218	1,619,036	270	1,621,441	319	1,623,085	453	1,625,082	352	1,626,637	631	1,628,046	633
1,617,311	305	1,619,169	320	1,621,448	332	1,623,123	380	1,625,090	406	1,626,638	634	1,628,050	606
1,617,313	317	1,619,185	310	1,621,468	306	1,623,136	386	1,625,121	538	1,626,639	634	1,628,055	517
1,617,332	257	1,619,267	290	1,621,472	390	1,623,169	358	1,625,181	422	1,626,640	634	1,628,066	726
1,617,341	223	1,619,295	287	1,621,475	323	1,623,200	370	1,625,195	433	1,626,648	440	1,628,067	769
1,617,353	256	1,619,326	344	1,621,506	359	1,623,241	435	1,625,198	462	1,626,655	529	1,628,127	517
1,617,396	257	1,619,327	344	1,621,506R	551	1,623,246	392	1,625,203	629	1,626,691	682	1,628,135	625
1,617,411	306	1,619,336	299	1,621,518	338	1,623,301	443	1,625,207	732	1,626,708	461	1,628,143	626
1,617,412	317	1,619,348	246	1,621,523	337	1,623,340	585	1,625,222	462	1,626,726	448	1,628,149	527
1,617,426	259	1,619,352	323	1,621,564	352	1,623,342	462	1,625,223	462	1,626,781	453	1,628,151	633
1,617,434	238	1,619,368	398	1,621,571	353	1,623,351	150	1,625,257	683	1,626,800	531	1,628,160	453
1,617,455	577	1,619,376	305	1,621,590	328	1,623,410	697	1,625,279	474	1,626,818	157	1,628,174	629
1,617,476	403	1,619,396	595	1,621,612	373	1,623,421	682	1,625,283	532	1,626,853	622	1,628,190	606
1,617,495	248	1,619,462	337	1,621,652	385	1,623,460	769	1,625,301	734	1,626,857	454	1,628,211	464
1,617,511	314	1,619,484	261	1,621,697	338	1,623,469	370	1,625,304	403	1,626,872	536	1,628,236	626
1,617,515	300	1,619,486	304	1,621,773	391	1,623,499	574	1,625,360	734	1,626,910	732	1,628,248	715
1,617,522	218	1,619,649	216	1,621,782	386	1,623,500	380	1,625,415	518	1,626,916	473	1,628,252	626
1,617,609	240	1,619,660	287	1,621,785	385	1,623,598	133	1,625,416	519	1,626,925	527	1,628,256	529
1,617,616	302	1,619,661	287	1,621,791	407	1,623,513	555	1,625,426	584	1,626,942	536	1,628,270	627
1,617,619	245	1,619,662	287	1,621,821	385	1,623,517	372	1,625,427	581	1,626,986	455	1,628,279	462
1,617,651	238	1,619,663	287	1,621,825	344	1,623,519	362	1,625,458	579	1,627,010	455	1,628,280	438
1,617,684	228	1,619,666	252	1,621,862	352	1,623,540	719	1,625,467	409	1,627,054	635	1,628,281	490
1,617,696	388	1,619,679	263	1,621,869	383	1,623,553	358	1,625,468	719	1,627,055	437	1,628,311	629
1,617,697	577	1,619,692	260	1,621,886	337	1,623,598	962	1,625,484	416	1,627,068	628	1,628,321	612
1,617,701	460	1,619,758	260	1,621,927	409	1,623,599	722	1,625,530	697	1,627,072	436	1,628,326	533
1,617,702	540	1,619,768	248	1,621,965	421	1,623,606	265	1,625,531	697	1,627,091	733	1,628,375	491
1,617,708	580	1,619,769	248	1,621,969	726	1,623,636	770	1,625,532	697	1,627,103	473	1,628,376	493
1,617,726	369	1,619,785	300	1,622,008	338	1,623,678	437	1,625,533	697	1,627,129	683	1,628,380	628
1,617,737	436	1,619,790	302	1,622,078	583	1,623,709	438	1,625,542	503	1,627,141	522	1,628,423	548
1,617,738	436	1,619,835	705	1,622,082	331	1,623,729	386	1,625,548	412	1,627,159	673	1,628,445	462
1,617,739	436	1,619,852	338	1,622,090	333	1,623,757	448	1,625,553	575	1,627,162	673	1,628,456	529
1,617,740	436	1,619,861	350	1,622,122	407	1,623,764	356	1,625,554	575	1,627,163	673	1,628,468	523
1,617,741	436	1,619,867	380	1,622,126	340	1,623,773	386	1,625,562	519	1,627,164	436	1,628,477	437
1,617,754	229	1,619,869	386	1,622,127	373	1,623,779	366	1,625,610	400	1,627,170	444	1,628,484	439
1,617,826	291	1,619,896	291	1,622,129	319	1,623,781	370	1,625,622	521	1,627,181	682	1,628,522	413
1,617,847	317	1,619,909	400	1,622,134	356	1,623,797	448	1,625,627	382	1,627,195	635	1,628,528	534
1,617,859	256	1,619,921	291	1,622,168	326	1,623,876	367	1,625,641	451	1,627,215	444	1,628,532	516
1,617,872	325	1,619,922	291	1,622,206	331	1,623,896	589	1,625,672	362	1,627,230	460	1,628,534	627
1,617,887	572	1,619,929	291	1,622,228	349	1,623,901	462	1,625,680	538	1,627,237	723	1,628,535	452
1,617,927	221	1,619,938	372	1,622,233	128	1,623,912	410	1,625,712	671	1,627,245	413	1,628,541	622
1,617,960	239	1,619,953	392	1,622,271	160	1,623,948	682	1,625,714	715	1,627,269	418	1,628,574	626
1,617,962	264	1,619,977	291	1,622,280	367	1,623,949	460	1,625,732	375	1,627,296	721	1,628,646	616
1,617,965	218	1,620,074	374	1,622,304	370	1,623,985	412	1,625,771	380	1,627,321	437	1,628,673	491
1,618,004	298	1,620,075	385	1,622,337	334	1,624,036	504	1,625,776	329	1,627,325	440	1,628,736	464
1,618,029	403	1,620,081	358	1,622,368	438	1,624,037	433	1,625,807	628	1,627,338	436	1,628,747	626
1,618,038	403	1,620,082	705	1,622,372	331	1,624,043	131	1,625,821	671	1,627,342	457	1,628,785	530
1,618,047	310	1,620,152	367	1,622,379	340	1,624,046	625	1,625,826	405	1,627,343	434	1,628,787	511
1,618,086	409	1,620,163	291	1,622,390	377	1,624,066	353	1,625,831	134	1,627,351	583	1,628,792	481
1,618,095	398	1,620,180	378	1,622,396	367	1,624,071							

No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.
1,629,241	519	1,631,637	548	1,633,871	771	1,635,761	775	1,638,112	961	1,640,648	827	1,642,574	820
1,629,250	532	1,631,642	634	1,633,874	551	1,635,793	606	1,638,113	961	1,640,652	778	1,642,587	964
1,629,345	491	1,631,695	692	1,633,877	793	1,635,812	661	1,638,115	806	1,640,657	776	1,642,588	964
1,629,352	482	1,631,720	548	1,633,881	768	1,635,845	596	1,638,116	961	1,640,668	785	1,642,594	926
1,629,393	519	1,631,722	610	1,633,911	771	1,635,896	597	1,638,121	812	1,640,674	783	1,642,595	929
1,629,396	626	1,631,729	692	1,633,927	859	1,635,949	652	1,638,220	853	1,640,698	768	1,642,624	807
1,629,448	535	1,631,730	602	1,633,929	838	1,635,950	657	1,638,279	847	1,640,706	791	1,642,662	959
1,629,512	504	1,631,750	675	1,633,941	563	1,635,981	779	1,638,335	806	1,640,707	768	1,642,667	848
1,629,557	567	1,631,789	675	1,633,942	563	1,635,990	797	1,638,440	751	1,640,708	877	1,642,673	831
1,629,563	492	1,631,823	517	1,633,948	787	1,636,106	749	1,638,471	848	1,640,710	822	1,642,683	970
1,629,618	570	1,631,865	674	1,633,956	717	1,636,138	767	1,638,475	965	1,640,712	894	1,642,689	859
1,629,648	523	1,631,867	607	1,633,959	768	1,636,144	741	1,638,492	778	1,640,717	888	1,642,694	907
1,629,699	527	1,631,871	572	1,633,967	607	1,636,151	750	1,638,522	841	1,640,720	961	1,642,754	908
1,629,714	557	1,631,875	574	1,633,976	788	1,636,201	797	1,638,535	790	1,640,724	870	1,642,788	907
1,629,733	465	1,631,887	734	1,633,997	773	1,636,229	796	1,638,613	836	1,640,737	892	1,642,789	921
1,629,769	553	1,631,903	677	1,634,006	786	1,636,296	748	1,638,644	836	1,640,775	892	1,642,830	925
1,629,770	533	1,631,930	528	1,634,012	599	1,636,390	763	1,638,669	758	1,640,802	874	1,642,871	900
1,629,807	718	1,631,947	619	1,634,054	771	1,636,391	774	1,638,677	792	1,640,803	874	1,642,880	842
1,629,810	626	1,631,974	569	1,634,076	601	1,636,351	715	1,638,684	848	1,640,817	790	1,642,896	842
1,629,819	567	1,632,011	549	1,634,090	551	1,636,455	749	1,638,713	859	1,640,818	790	1,642,912	900
1,629,873	574	1,632,027	549	1,634,100	561	1,636,466	749	1,638,735	961	1,640,837	784	1,642,929	921
1,629,884	550	1,632,052	519	1,634,122	677	1,636,467	753	1,638,832	860	1,640,853	963	1,642,942	897
1,629,885	559	1,632,105	783	1,634,124	565	1,636,485	743	1,638,833	860	1,640,899	884	1,642,943	897
1,629,894	470	1,632,113	788	1,634,154	545	1,636,493	749	1,638,834	860	1,640,901	887	1,642,975	884
1,629,906	470	1,632,251	770	1,634,182	558	1,636,520	711	1,638,855	783	1,640,922	786	1,642,978	874
1,629,908	469	1,632,252	772	1,634,221	797	1,636,550	768	1,638,877	758	1,640,938	806	1,643,011	857
1,629,924	565	1,632,278	798	1,634,222	797	1,636,563	795	1,638,977	746	1,640,952	815	1,643,012	857
1,629,999	563	1,632,299	778	1,634,241	780	1,636,569	763	1,639,051	736	1,640,975	962	1,643,036	836
1,630,044	626	1,632,306	574	1,634,242	549	1,636,585	767	1,639,057	959	1,640,988	784	1,643,047	921
1,630,050	507	1,632,307	786	1,634,243	549	1,636,596	788	1,639,152	963	1,641,005	892	1,643,054	847
1,630,072	573	1,632,312	793	1,634,244	549	1,636,644	741	1,639,186	838	1,641,053	868	1,643,065	832
1,630,074	549	1,632,365	787	1,634,245	545	1,636,656	753	1,639,206	965	1,641,108	800	1,643,080	872
1,630,079	511	1,632,419	781	1,634,246	545	1,636,657	753	1,639,214	799	1,641,182	870	1,643,116	904
1,630,101	549	1,632,458	768	1,634,259	615	1,636,685	768	1,639,271	966	1,641,211	820	1,643,136	842
1,630,128	561	1,632,467	839	1,634,310	616	1,636,701	764	1,639,272	813	1,641,281	807	1,643,137	842
1,630,129	569	1,632,483	777	1,634,311	607	1,636,710	811	1,639,274	962	1,641,292	798	1,643,155	960
1,630,143	569	1,632,484	777	1,634,331	592	1,636,719	763	1,639,325	961	1,641,305	771	1,643,181	908
1,630,147	552	1,632,485	777	1,634,336	789	1,636,724	811	1,639,327	806	1,641,322	775	1,643,205	917
1,630,197	552	1,632,579	569	1,634,338	777	1,636,763	753	1,639,330	784	1,641,326	819	1,643,233	966
1,630,201	623	1,632,604	560	1,634,343	726	1,636,768	767	1,639,347	807	1,641,337	800	1,643,243	832
1,630,202	519	1,632,617	789	1,634,346	780	1,636,818	758	1,639,356	805	1,641,349	801	1,643,261	812
1,630,224	492	1,632,647	562	1,634,348	792	1,636,844	764	1,639,390	804	1,641,409	866	1,643,272	836
1,630,267	531	1,632,666	789	1,634,359	609	1,636,855	764	1,639,391	804	1,641,411	873	1,643,276	916
1,630,283	521	1,632,667	789	1,634,410	795	1,636,856	771	1,639,417	804	1,641,412	873	1,643,299	896
1,630,285	519	1,632,704	783	1,634,424	777	1,636,857	796	1,639,423	959	1,641,413	873	1,643,301	922
1,630,300	515	1,632,740	957	1,634,459	693	1,636,890	751	1,639,431	959	1,641,422	969	1,643,304	913
1,630,301	516	1,632,748	768	1,634,473	771	1,636,881	848	1,639,531	962	1,641,503	965	1,643,321	847
1,630,316	625	1,632,758	769	1,634,477	769	1,636,890	763	1,639,549	763	1,641,520	866	1,643,401	960
1,630,361	528	1,632,759	790	1,634,478	769	1,636,928	741	1,639,571	761	1,641,529	822	1,643,437	839
1,630,365	532	1,632,802	774	1,634,479	769	1,636,942	766	1,639,584	749	1,641,544	892	1,643,446	961
1,630,411	610	1,632,829	594	1,634,480	769	1,636,946	741	1,639,585	826	1,641,546	806	1,643,447	852
1,630,412	610	1,632,833	785	1,634,497	726	1,636,952	796	1,639,610	785	1,641,563	965	1,643,496	852
1,630,424	519	1,632,845	769	1,634,505	603	1,636,974	753	1,639,658	773	1,641,564	820	1,643,520	836
1,630,448	632	1,632,891	609	1,634,514	771	1,636,975	741	1,639,694	785	1,641,573	824	1,643,521	836
1,630,456	624	1,632,950	726	1,634,527	607	1,637,007	740	1,639,698	786	1,641,579	797	1,643,529	862
1,630,506	612	1,632,969	574	1,634,586	726	1,637,023	773	1,639,704	811	1,641,588	905	1,643,532	866
1,630,507	606	1,632,967	770	1,634,603	746	1,637,052	769	1,639,724	797	1,641,598	824	1,643,566	905
1,630,508	606	1,633,007	775	1,634,613	774	1,637,068	795	1,639,725	797	1,641,677	781	1,643,569	970
1,630,577	622	1,633,071	769	1,634,615	784	1,637,163	753	1,639,903	885	1,641,676	826	1,643,610	970
1,630,578	622	1,633,091	784	1,634,658	622	1,637,166	767	1,639,905	815	1,641,677	826	1,643,619	960
1,630,589	624	1,633,123	772	1,634,659	622	1,637,167	751	1,639,917	797	1,641,708	896	1,643,663	860
1,630,693	618	1,633,132	781	1,634,666	674	1,637,187	740	1,639,957	885	1,641,710	923	1,643,666	858
1,630,613	531	1,633,152	776	1,634,735	602	1,637,281	749	1,639,980	787	1,641,736	801	1,643,675	836
1,630,638	599	1,633,160	776	1,634,795	778	1,637,311	763	1,639,981	787	1,641,752	819	1,643,692	861
1,630,634	599	1,633,164	767	1,634,796	778	1,637,353	814	1,639,982	787	1,641,771	792	1,643,698	901
1,630,657	599	1,633,200	792	1,634,870	778	1,637,439	779	1,639,983	787	1,641,804	901	1,643,699	901
1,630,618	624	1,633,220	776	1,634,879	616	1,637,451	778	1,639,984	787	1,641,843	959	1,643,736	835
1,630,660	512	1,633,221	776	1,634,969	609	1,637,481	819	1,639,985	787	1,641,852	962	1,643,772	857
1,630,662	627	1,633,258	785	1,634,980	599	1,637,486	785	1,639,988	806	1,641,911	961	1,643,774	850
1,630,688	726	1,633,292	774	1,634,986	746	1,637,510	962	1,639,989	783	1,641,965	812	1,643,775	832
1,630,752	675	1,633,337	788	1,635,012	774	1,637,512	823	1,640,018	773	1,642,018	917	1,643,804	924
1,630,769	619	1,633,347	777	1,635,013	774	1,637,514	814	1,640,148	829	1,642,054	917	1,643,805	924
1,630,771	726	1,633,352	768	1,635,026	774	1,637,515	814	1,640,161	785	1,642,055	901	1,643,808	850
1,630,782	619	1,633,383	545	1,635,055	607	1,637,661	974	1,640,182	827	1,642,078	916	1,643,809	912
1,630,786	627	1,633,392	860	1,635,167	860	1,637,703	787	1,640,202	806	1,642,079	916	1,643,810	950
1,630,818	598	1,633,462	567	1,635,168	860	1,637,726	839	1,640,218	781	1,642,089	930	1,643,826	905
1,630,881	522	1,633,466	797	1,635,169	797	1,637,799							

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1,644,380	882	1,644,764	934	1,645,212	952	1,645,974	870	1,646,372	907	1,647,050	913	1,648,213	956
1,644,417	852	1,644,828	912	1,645,293	881	1,645,990	89	1,646,380	900	1,647,062	909	1,648,247	943
1,644,418	852	1,644,842	922	1,645,366	896	1,645,997	873	1,646,385	923	1,647,082	921	1,648,293	943
1,644,419	852	1,644,951	898	1,645,526	882	1,646,010	916	1,646,389	931	1,647,089	923	1,648,294	939
1,644,420	852	1,644,991	868	1,645,530	868	1,646,014	868	1,646,454	898	1,647,096	912	1,648,295	939
1,644,425	847	1,645,061	935	1,645,553	900	1,646,058	914	1,646,506	928	1,647,191	928	1,648,487	956
1,644,431	847	1,645,074	881	1,645,703	923	1,646,079	920	1,646,538	935	1,647,208	898	1,648,697	942
1,644,439	832	1,645,091	881	1,645,745	935	1,646,157	922	1,646,605	905	1,647,213	913	1,648,707	943
1,644,446	893	1,645,098	881	1,645,780	896	1,646,208	927	1,646,619	931	1,647,301	913	1,648,716	931
1,644,447	873	1,645,099	881	1,645,816	916	1,646,213	911	1,646,653	928	1,647,445	931	1,648,719	947
1,644,451	873	1,645,112	893	1,645,861	868	1,646,221	914	1,646,671	922	1,647,491	912	1,648,722	943
1,644,469	894	1,645,119	881	1,645,925	874	1,646,239	913	1,646,698	929	1,647,524	943	1,648,760	943
1,644,518	897	1,645,126	912	1,645,927	881	1,646,247	863	1,646,760	931	1,647,591	943	1,648,761	943
1,644,546	860	1,645,141	873	1,645,950	874	1,646,279	927	1,646,762	921	1,647,725	943	1,648,790	929
1,644,684	898	1,645,198	863	1,646,951	874	1,646,280	915	1,646,785	903	1,647,726	943	1,648,856	931
1,644,736	868	1,645,213	880	1,645,968	941	1,646,281	915	1,646,838	907	1,647,764	937	1,648,858	947
1,644,741	913	1,645,238	893	1,645,969	931	1,646,339	836	1,646,862	913	1,647,953	917	1,648,870	937
1,644,753	896												

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392,935	345	432,851	182	433,819	180	435,530	398	436,533	386	437,813	468	439,115	619
393,993	345	432,894	229	433,853	228	435,573	323	436,535	387	437,836	406	439,154	605
396,426	340	432,903	207	433,855	245	435,575	291	436,537	404	437,891	632	439,171	658
398,093	330	432,921	199	433,978	210	435,587	323	436,539	405	437,909	498	439,204	591
398,542	467	432,932	175	433,983	362	435,589	330	436,671	482	437,910	440	439,226	703
400,414	345	432,942	237	434,009	258	435,611	578	436,694	490	437,924	459	439,235	663
409,129	258	432,947	225	434,086	273	435,653	320	436,792	361	437,925	507	439,251	673
412,134	225	432,961	199	434,143	495	435,654	330	436,819	684	437,936	465	439,289	669
415,796	258	432,985	183	434,187	221	435,667	466	436,820	579	437,970	548	439,359	675
421,382	185	433,031	224	434,202	304	435,668	349	436,830	579	437,975	459	439,365	663
424,052	203	433,037	223	434,219	258	435,685	421	436,858	464	438,006	536	439,387	829
426,865	378	433,065	207	434,269	244	435,689	349	436,878	538	438,019	450	439,399	659
427,075	233	433,098	286	434,278	218	435,692	360	436,882	462	438,037	440	439,466	828
427,800	500	433,099	285	434,279	237	435,703	337	436,887	386	438,065	723	439,484	765
428,131	190	433,102	286	434,318	305	435,704	337	436,890	531	438,071	467	439,498	666
430,365	468	433,103	375	434,352	245	435,713	344	436,918	626	438,075	438	439,510	652
430,558	274	433,105	286	434,400	348	435,714	344	436,923	454	438,176	465	439,518	902
430,579	213	433,145	213	434,402	276	435,722	350	436,944	337	438,177	480	439,519	708
430,580	275	433,147	215	434,403	286	435,725	330	436,945	357	438,178	481	439,520	961
430,621	359	433,149	276	434,417	257	435,737	319	436,996	405	438,180	548	439,521	854
430,669	798	433,150	277	434,419	305	435,747	338	436,997	482	438,186	467	439,523	789
430,901	211	433,151	277	434,568	258	435,748	339	436,999	428	438,199	758	439,540	653
431,030	256	433,152	197	434,605	241	435,753	387	437,010	403	438,200	758	439,550	695
431,249	249	433,153	216	434,640	580	435,755	350	437,043	462	438,221	463	439,551	854
431,369	183	433,154	216	434,667	579	435,729	333	437,048	468	438,229	431	439,608	695
431,537	185	433,158	197	434,728	347	435,804	387	437,063	450	438,241	499	439,614	901
431,554	176	433,159	182	434,729	341	435,815	344	437,078	611	438,269	107	439,615	795
431,622	223	433,162	262	434,779	254	435,835	419	437,099	466	438,292	563	439,693	660
431,744	275	433,163	261	434,794	258	435,837	330	437,113	440	438,325	650	439,695	974
431,771	212	433,181	210	434,795	291	435,890	633	437,115	452	438,326	572	439,712	695
431,775	275	433,218	224	434,796	258	435,899	363	437,131	678	438,327	573	439,765	965
431,776	213	433,236	215	434,829	391	435,913	412	437,154	501	438,328	573	439,766	702
431,777	197	433,237	466	434,830	348	435,917	490	437,159	459	438,378	964	439,777	660
431,845	196	433,244	225	434,922	298	435,931	491	437,173	633	438,392	632	439,804	696
431,862	184	433,276	216	434,923	291	435,973	782	437,210	517	438,429	467	439,834	653
431,987	190	433,277	212	434,924	258	435,975	409	437,245	728	438,460	675	439,962	822
432,110	215	433,293	237	434,948	337	436,077	404	437,257	463	438,461	675	440,001	792
432,111	214	433,349	277	434,979	387	436,084	491	437,268	464	438,467	550	440,037	854
432,112	212	433,351	481	434,983	298	436,092	491	437,276	467	438,472	727	440,043	777
432,113	215	433,352	481	434,985	298	436,093	583	437,322	467	438,554	472	440,052	974
432,178	212	433,364	181	434,988	324	436,149	535	437,336	583	438,558	527	440,099	783
432,216	197	433,366	184	434,997	265	436,161	509	437,352	448	438,624	607	440,122	824
432,232	224	433,376	189	435,013	241	436,170	482	437,355	426	438,743	647	440,169	770
432,237	210	433,387	238	435,028	303	436,182	411	437,371	480	438,833	512	440,196	786
432,274	195	433,432	274	435,077	533	436,249	383	437,451	460	438,834	530	440,227	774
432,303	224	433,454	188	435,092	407	436,241	480	437,481	455	438,836	660	440,237	800
432,305	224	433,455	404	435,093	288	436,242	436	437,482	671	438,841	648	440,298	779
432,394	194	433,478	190	435,109	338	436,266	463	437,483	464	438,843	770	440,324	770
432,426	359	433,479	197	435,116	525	436,267	463	437,502	490	438,849	599	440,334	778
432,472	265	433,510	482	435,155	298	436,268	352	437,507	509	438,879	524	440,335	786
432,485	187	433,520	218	435,170	337	436,269	388	437,515	423	438,929	512	440,337	777
432,511	225	433,522	188	435,210	291	436,265	422	437,532	450	438,935	708	440,338	813
432,520	127	433,523	467	435,212	298	436,268	490	437,552	450	438,944	843	440,341	974
432,579	211	433,524	210	435,229	343	436,269	491	437,553	496	438,951	573	440,379	960
432,580	210	433,525	188	435,265	299	436,270	490	437,561	491	439,005	596	440,380	777
432,683	182	433,526	218	435,266	298	436,271	404	437,563	465	439,006	695	440,381	769
432,712	515	433,527	275	435,305	290	436,272	392	437,598	462	439,009	661	440,382	777
432,723	190	433,556	233	435,346	388	436,273	421	437,612	452	439,010	695	440,389	924
432,724	189	433,586	189	435,347	347	436,274	549	437,637	459	439,011	770	440,401	825
432,727	269	433,646	286	435,389	317	436,275	379	437,646	452	439,042	714	440,402	848
432,728	468	433,653	233	435,515	538	436,276	378	437,670	530	439,043	974	440,568	798
432,744	181	433,666	218	435,517	385	436,277	460	437,689	410	439,044	896	440,606	905
432,795	223	433,733	361	435,527	814	436,278	428	437,727	480	439,077	663	440,622	804
432,816	196	433,734	210	435,528	530	436,279	359	437,760	723	439,111	964	440,623	965
432,827	223	433,742	233	435,529	348	436,280	470	437,782	480	439,114	769	440,657	813

No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.
440,704	814	410,978	965	411,213	826	441,383	853	441,697	921	442,046	949	442,596	907
410,747	966	410,979	830	411,223	820	441,392	811	441,736	965	442,166	876	442,644	914
440,755	965	410,996	965	411,224	815	441,424	812	441,740	847	442,176	877	442,646	906
410,769	805	441,000	959	411,258	959	441,432	924	441,832	848	442,255	966	442,650	917
410,771	925	411,002	924	411,259	815	441,433	924	441,865	850	442,253	866	442,706	907
440,772	925	411,003	924	441,260	965	441,441	835	441,888	957	442,258	863	442,717	907
440,795	966	441,053	905	441,269	812	441,456	835	441,911	888	442,268	960	442,833	944
440,800	800	441,112	965	441,272	924	441,457	857	441,912	849	442,212	849	442,856	848
440,813	963	441,150	861	441,325	905	441,493	835	441,930	847	442,254	897	442,965	844
440,843	815	441,163	903	441,326	905	441,530	819	441,944	842	442,250	949	442,966	937
440,844	811	441,164	924	441,327	905	441,587	901	441,964	848	442,253	957	443,010	944
440,891	903	441,178	814	441,365	819	441,630	893	442,024	965	442,536	957	443,130	919
440,918	814	441,179	903	441,378	820	441,669	900	442,037	876				

FRENCH PATENTS.

Note. The letter "A" indicates an addition to the patent.

No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.
530,490A	245	605,226	379	607,965	185	609,404	252	610,417	296	612,094	411	615,325	846
556,211A	422	605,661	553	608,026	221	609,422	391	610,448	357	612,129	966	616,349	649
561,614A	362	606,189	435	608,062	428	609,426	391	610,454	779	612,142	481	616,381	653
570,557	459	606,190	464	608,097	538	609,518	404	610,498	291	612,227	467	616,441	658
575,431	421	606,214	791	608,101	286	609,540	457	610,499	291	612,238	409	616,553	771
578,564A	956	606,487	699	608,114	195	609,548	398	610,519	407	612,282	385	616,578	850
579,207	758	606,605	195	608,123	182	609,678	245	610,520	299	612,338	698	616,681	901
579,277	428	606,783	210	608,154	182	609,720	428	610,539	407	612,345	481	616,749	835
579,472	459	606,793	193	608,171	270	609,723	663	610,572	808	612,391	966	616,750	835
581,175	156	606,817	182	608,186	274	609,728	391	610,645	779	612,394	818	616,800	974
582,400	866	606,886	210	608,190	187	609,731	888	610,673	460	612,401	411	616,809	963
582,402	459	606,897	189	608,302	241	609,734	970	610,686	256	612,409	791	616,879	811
583,856	389	606,900	274	608,309	196	609,765	391	610,734	298	612,414	406	616,932	957
586,383	459	606,914	196	608,332	245	609,766	391	610,890	345	612,477	652	616,942	856
587,202	758	606,932	500	608,330	265	609,768	603	610,879	466	612,486	481	616,121	847
587,203	758	606,952	190	608,391	829	609,806	530	610,906	299	612,548	383	616,286	777
587,686A	398	606,959	197	608,402	448	609,814	290	610,936	298	612,583	791	616,401	835
590,901	791	606,962	236	608,415	388	609,812	258	610,956	780	612,732	482	616,407	819
592,272	697	606,969	552	608,422	245	609,844	253	611,004	404	612,790	894	616,533	836
593,648	347	607,059	218	608,425	245	609,880	391	611,017	470	612,879	387	616,562	947
593,649	347	607,059A	814	608,601	601	609,881	391	611,095	330	612,880	491	616,644	965
593,650	346	607,108	194	608,615	265	609,904	407	611,106	816	612,932	966	616,849	846
594,121	346	607,135	647	608,616	265	609,931	252	611,114	969	612,946	500	617,033	847
594,291	398	607,155	548	608,621	861	609,932	391	611,136	362	612,993	463	617,042	859
594,855	329	607,223	699	608,658	603	609,933	391	611,137	362	613,046	826	617,079	846
595,954	758	607,259	188	608,659	601	609,934	391	611,139	440	613,074	861	617,210	857
595,974	536	607,260	188	608,730	210	609,935	391	611,141	330	613,089	509	617,211	902
596,147A	658	607,261	188	608,903	305	609,936	391	611,236	625	613,123	464	617,225	835
596,198	791	607,266	184	608,928	388	609,985	391	611,264	416	613,492	822	617,235	814
596,552	422	607,269	273	608,930	218	609,986	391	611,289	361	613,509	820	617,237	846
596,918	330	607,279	211	608,957	606	609,987	391	611,401	362	613,510	820	617,285	894
598,447	347	607,296	180	609,037	265	609,988	241	611,405	372	613,517	661	617,361	835
598,502A	548	607,381	194	609,100	217	609,989	391	611,417	481	613,596	810	617,481	866
600,311	437	607,402	194	609,108	228	610,010	251	611,457	330	613,677	527	617,551	832
601,156	701	607,428	194	609,109	228	610,021	241	611,479	627	613,755	512	617,600	963
601,612	937	607,450	185	609,136	646	610,139	391	611,548	466	613,758	969	617,697	866
601,687	212	607,537	188	609,138	783	610,140	391	611,652	330	613,879	591	617,739	965
601,709	275	607,546	140	609,180	241	610,141	391	611,663	589	613,884	622	617,870	894
601,919*	563	607,632	482	609,191	295	610,142	391	611,670	829	613,922	568	617,945	922
601,919†	851	607,655	197	609,259	391	610,160	251	611,671	830	614,037	921	618,425	881
602,007	516	607,661	195	609,264	252	610,181	391	611,672	829	614,229	597	618,560	876
602,113	223	607,672	211	609,264A	813	610,182	391	611,699	580	614,442	539	619,029	629
602,243	538	607,683	210	609,277	658	610,183	391	611,731	457	614,553	850	619,080	928
602,866	183	607,688	273	609,295	241	610,184	391	611,810	389	614,862	511	619,168	929
603,123	964	607,726	185	609,327	606	610,185	391	611,899	579	614,913	857	619,621	937
604,347	212	607,735	196	609,336	245	610,261	437	611,994	580	614,944	663	619,660	912
604,443	275	607,828	194	609,340	244	610,282	348	612,036	436	615,014	793	619,828	957
604,450	212	607,829	194	609,361	601	610,308	407	612,081	970	615,149	769	619,858	953
605,127	964	607,915	238										

* Addition ii.

† Addition iii.

NORWEGIAN PATENT.

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40,618	409

SWISS PATENTS.

No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.
111,120	156	114,677	185	115,203	265	115,884	333	116,630	452	117,310	851	117,957	966
111,562	470	114,699	188	115,306	264	115,929	424	116,958	626	117,568	894	117,969	964
113,251	398	114,913	470	115,536	699	116,016	257	116,999	663	117,570	894	118,083	850
113,922	518	114,997	257	115,676	296	116,162	311	117,136	811	117,715	894	118,501	913
114,271	216	115,100	503	115,701	361	116,163	311	117,203	865	117,718	909	118,710	944
114,438	536	115,114	647	115,702	330	116,465	829	117,304	866	117,768	859	118,714	937
114,655	210	115,116	305										

CANADIAN PATENTS.

No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.
247,810	403	259,411	577	260,248	393	261,891	298	263,180	777	263,596	778	264,357	877
258,301	273	259,412	577	260,376	215	262,539	482	263,193	846	264,172	819	264,697	842
258,227	378	259,584	218	260,931	588	262,601	403	263,352	778	264,324	961	264,747	909
258,626	393	260,226	210	261,588	436	263,017	866	263,549	815	264,312	892	264,956	916
259,391	265	260,227	210	261,617	462								

AUSTRALIAN PATENTS.

No. of Patent.	Page. B.	No. of Patent.	Page. B.
20,366	577	22,011	726
20,811	336	22,518	677

AUSTRIAN PATENTS.

No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.
100,211	429	103,714	211	103,996	288	104,238	579	104,404	389	105,353	811	105,784	953
101,681	183	103,897	825	104,007	339	104,239	579	104,111	381	105,356	786	105,785	953
102,663	190	103,903	260	104,009	337	104,385	698	104,738	484	105,359	825	105,794	947
102,956	199	103,904	195	104,110	577	104,390	705	104,741	622	105,361	966	105,797	912
103,613	185	103,911	277	104,137	696	104,395	407	104,745	483	105,362	805	106,021	913
103,622	296	103,913	310	104,143	626	104,397	628	105,084	621	105,689	913	106,083	929
103,630	188	103,918	264	104,148	333	104,398	420	105,341	901	105,701	913	106,211	913
103,708	227	103,995	288	104,237	579	104,402	404	105,348	801	105,704	919	106,326	912

DANISH PATENTS.

No. of Patent.	Page. B.
34,077	387
34,370	678
34,635	705

DUTCH PATENTS.

No. of Patent.	Page. B.	No. of Patent.	Page. B.
14,494	856	15,167	770
14,653	836	15,202	387
15,039	650	15,378	330
15,083	597	15,635	628

JOURNALS FROM WHICH ABSTRACTS ARE MADE.

The following is a list of the principal Journals from which abstracts are made (directly or indirectly) by the Bureau of Chemical Abstracts. Further information regarding any of these Journals may be obtained from the Secretary of the Bureau.

ABBREVIATED TITLE.	JOURNAL.	ABBREVIATED TITLE.	JOURNAL.
Abh. Böhm. Akad. .	Abhandlungen der Böhmischen Akademie.	Ber. Deut. bot. Ges. .	Berichte der Deutschen botanischen Gesellschaft.
Acta Phytochim. .	Acta Phytochimica.	Ber. Deut. pharm. Ges. .	Berichte der Deutschen pharmazeutischen Gesellschaft.
Acta Sci. Fennicae .	Acta Societatis Scientiarum Fennicae.	Ber. Oberhess. Ges. .	Berichte der Oberhessischen Gesellschaft für Natur- und Heilkunde zu Giessen.
Agric. J. India .	Agricultural Journal of India.	Ber. Ohara Inst. landw. Forsch. .	Berichte des Ohara Instituts für landwirtschaftliche Forschungen.
Agric. Res. Inst., Pusa, Rep. (Bull.) .	Agricultural Research Institute, Pusa, Reports and Bulletins.	Ber. Sächs. Akad. Wiss. .	Berichte über die Verhandlungen der Sächsischen Akademie der Wissenschaften zu Leipzig.
Allgem. Z. Bierbrau. .	Allgemeine Zeitschrift für Bierbrauerei und Malzfabrikation.	Berlin. Klin. Woch. .	Berliner Klinische Wochenschrift
Amer. J. Bot. .	American Journal of Botany.	Bied. Zentr. .	Biedermann's Zentralblatt.
Amer. J. Dis. Children	American Journal of Diseases of Children.	Biochem. J. .	Biochemical Journal.
Amer. J. Pharm. .	American Journal of Pharmacy.	Biochem. Z. .	Biochemische Zeitschrift.
Amer. J. Physiol. .	American Journal of Physiology.	Bol. Acad. Nac. Ciencias, Cordoba	Boletín de la Academia Nacional de Ciencias, Córdoba.
Amer. J. Publ. Health	American Journal of Public Health.	Boll. Chim. farm. .	Bollettino Chimico farmaceutico.
Amer. J. Sci. .	American Journal of Science.	Boll. Soc. Geol. Ital. .	Bollettino della Società Geologica Italiana.
Amer. Min. .	American Mineralogist.	Boll. Soc. Med.-Chirurg. .	Bollettino della Società Medico-Chirurgica, Pavia.
Anal. Asoc. Quím. Argentina	Anales de la Asociación Química Argentina.	Boll. Uff. Staz. Sperim. Ind. Pelli	R. Stazione Sperimentale per l'Industria delle Pelli o delle materie concianti, Bollettino Ufficiale.
Anal. Fís. Quím. .	Anales de la Sociedad Española de Física y Química.	Bot. Gaz. .	Botanical Gazette.
Analyst .	Analyst.	Brass. Malt. .	Brasserie et Maltorie.
Annalen .	Justus Liebig's Annalen der Chemie.	Brau- u. Malzind. .	Brau- u. Malzindustrie.
Ann. Bot. .	Annals of Botany.	Braunkohle .	Braunkohle.
Ann. di Bot. .	Annali di Botanica.	Brennstoff-Chem. .	Brennstoff-Chemie.
Ann. Chim. .	Annales de Chimie.	Brewers' J. .	Brewers' Journal.
Ann. Chim. Analyt. .	Annales de Chimie Analytique et de Chimie Appliquée.	Brit. J. Phot. .	British Journal of Photography.
Annali Chim. Appl. .	Annali di Chimica Applicata.	Brit. Med. J. .	British Medical Journal.
Ann. Falsif. .	Annales des Falsifications.	Buletinul Chim. .	Buletinul Chimie.
Ann. Inst Pasteur .	Annales de l'Institut Pasteur.	Bul. Soc. Chim. România	Buletinul Societății de Chimie din România.
Ann. Physik .	Annalen der Physik.	Bul. Soc. Romane Stiin.	Buletinul Societății Romane de Științe.
Ann. Physique .	Annales de Physique.	Bull. Acad. roy. Belg.	Académie royale de Belgique—Bulletin de la Classe des Sciences.
Ann. R. Staz. Chim. Agrar. Sperim. .	Annali della R. Stazione Chimico Agraria Sperimentale di Roma.	Bull. Acad. Sci. Roumaine	Bulletin de la Section Scientifique de l'Académie Roumaine.
Ann. sci. Univ. Jassy. .	Annales scientifiques de l'Université de Jassy.	Bull. Assoc. Chim. Suer.	Bulletin de l'Association des Chimistes de Sucre et de Distillerie.
Apoth.-Ztg. .	Apotheker-Zeitung.	Bull. Bureau of Standards	Bulletin of the Bureau of Standards (U.S.A.).
Arb. Gebiet. Physik, Math., Chem. .	Arbeiten aus dem Gebiete der Physik, Mathematik und Chemie.	Bull. Chem. Soc. Japan	Bulletin of the Chemical Society of Japan.
Arch. exp. Path. Pharm. .	Archiv für experimentelle Pathologie und Pharmakologie.	Bull. Forest Exp. Stat. Meguro	Bulletin of the Forest Experiment Station, Meguro, Tokyo.
Arch. Farm. sperim. Sci. aff. .	Archivio di Farmacologia sperimentale e Scienze affini.	Bull. Geol. Survey, U.S.A.	Bulletin of the U.S. Geological Survey.
Arch. Int. Med. .	Archives of Internal Medicine.	Bull. Imp. Inst. .	Bulletin of the Imperial Institute.
Arch. Med. Pharm. milit. .	Archives de Médecine et de Pharmacie militaires.	Bull. Inst. Phys. Chem. Res., Japan	Bulletin of the Institute of Physical and Chemical Research, Japan (Rikwagaku Kenkyujo Iho).
Arch. Néerland. .	Archives Néerlandaises de sciences exactes et naturelles.	Bull. Inter. Acad. Polonaise	Bulletin International de l'Académie Polonaise des Sciences et des Lettres.
Arch. Néerland. physiol. .	Archives Néerlandaises de physiologie de l'homme et des animaux.	Bull. Johns Hopkins Hosp. .	Bulletin of the Johns Hopkins Hospital.
Arch. Pharm. .	Archiv der Pharmazie.	Bull. School Mines and Met., Univ. Missouri	Bulletin of the School of Mines and Metallurgy, University of Missouri.
Arch Sci. phys. nat. .	Archives des Sciences physiques et naturelles.	Bull. Sci. Pharmacol. .	Bulletin des Sciences Pharmacologiques.
Arch. Suikerind. Ned.-Indië .	Archief voor de Suikerindustrie in Nederlandsch-Indië.	Bull. Soc. chim. .	Bulletin de la Société chimique de France.
Arkiv Kemi, Min., Geol. .	Arkiv för Kemi, Mineralogi och Geologi.		
Astrophys. J. .	Astrophysical Journal.		
Atti R. Accad. Lincei	Atti della Reale Accademia Nazionale dei Lincei.		
Atti R. Accad. Sci. Torino .	Atti della Reale Accademia delle Scienze di Torino.		
Austral. J. Exp. Biol.	Australian Journal of Experimental Biology and Medicine.		
B.P. .	British Patent.		
Ber. .	Berichte der Deutschen chemischen Gesellschaft.		

ABBREVIATED TITLE.	JOURNAL.	ABBREVIATED TITLE.	JOURNAL.
Bull. Soc. chim. Belg.	Bulletin de la Société chimique de Belgique.	Jahrb. geol. Reichsanst.	Jahrbuch der geologischen Reichsanstalt.
Bull. Soc. Chim. biol.	Bulletin de la Société de Chimie biologique.	Jahrb. Min.	Neues Jahrbuch für Mineralogie, Geologie und Paläontologie.
Bull. Soc. d'Encour.	Bulletin de la Société d'Encouragement pour l'Industrie Nationale.	Jahrb. Min. Beil.-Bd.	Neues Jahrbuch für Mineralogie, Geologie und Paläontologie, Beilage-Band.
Bull. Soc. Franç. Phot.	Bulletin de la Société Française de Photographie.	Jahrb. Radioaktiv.	Jahrbuch der Radioaktivität und Elektronik.
Bull. Soc. Ind. Mulhouse	Bulletin de la Société Industrielle de Mulhouse.	Jahrb. wiss. Bot.	Jahrbuch für wissenschaftliche Botanik.
Canada Dept. Mines Publ.	Canada Department of Mines Publications.	Jahresber. Ges. vaterl. Kultur	Jahresbericht der schlesischen Gesellschaft für vaterländische Kultur.
Canadian Chem. Met.	Canadian Chemistry and Metallurgy.	Japan. J. Med. Sci.	Japanese Journal of Medical Sciences.
Caoutchouc et Gutta-Percha	Le Caoutchouc et le Gutta-Percha.	Japan. J. Phys.	Japanese Journal of Physics.
Cellulosechem.	Cellulosechemie.	Jernk. Ann.	Jernkontorets Annaler.
Centr. Min.	Centralblatt für Mineralogie, Geologie und Paläontologie.	J. Agric. Res.	Journal of Agricultural Research.
Cereal Chem.	Cereal Chemistry.	J. Agric. Sci.	Journal of Agricultural Science.
Chem. Age	Chemical Age.	J. Amer. Ceram. Soc.	Journal of the American Ceramic Society.
Chem. App.	Chemische Apparatur.	J. Amer. Chem. Soc.	Journal of the American Chemical Society.
Chem. Erdo	Chemie der Erde.	J. Amer. Leather Chem. Assoc.	Journal of the American Leather Chemists' Association.
Chem. and Ind.	Chemistry and Industry.	J. Amer. Med. Assoc.	Journal of the American Medical Association.
Chem. Ind.	Chemische Industrie.	J. Amer. Pharm. Assoc.	Journal of the American Pharmaceutical Association.
Chem. Listy	Chemické Listy pro Vědu a Průmysl. Organ do la "Česká chemická Společnost pro Vědu a Průmysl."	J. Assoc. Off. Agric. Chem.	Journal of the Association of Official Agricultural Chemists.
Chem. and Met. Eng.	Chemical and Metallurgical Engineering.	J. Biol. Chem.	Journal of Biological Chemistry.
Chem. News	Chemical News.	J. Canad. Min. Inst.	Journal of the Canadian Mining Institute.
Chem. Trade J.	Chemical Trade Journal.	J. Chem. Met. Soc. S. Africa	Journal of the Chemical, Metallurgical, and Mining Society of South Africa.
Chem. Umschau	Chemische Umschau auf dem Gebiete der Fette, Öle, Wachse, und Harze.	J. Chem. Soc. Japan	Journal of the Chemical Society of Japan. (Nippon Kwagaku Kwai Shi.)
Chem. Weekblad	Chemisch Weekblad.	J. Chim. phys.	Journal de Chimie physique.
Chem.-Ztg.	Chemiker-Zeitung.	J. Coll. Agric. Hokkaido	Journal of the College of Agriculture, Hokkaido Imperial University, Japan.
Chem. Zentr.	Chemisches Zentralblatt.	J. Coll. Agric. Tokyo	Journal of the College of Agriculture, Imperial University of Tokyo, Japan.
Chim. et Ind.	Chimie et Industrie.	J. Coll. Eng. Tokyo	Journal of the College of Engineering, Imperial University of Tokyo.
Collegium	Collegium.	J. Coll. Sci. Tokyo	Journal of the College of Science, Imperial University of Tokyo.
Compt. rend.	Comptes rendus hebdomadaires des Séances de l'Académie des Sciences.	J. Exp. Med.	Journal of Experimental Medicine.
Compt. rend. Soc. Biol.	Comptes rendus hebdomadaires de Séances de la Société de Biologie.	J. Franklin Inst.	Journal of the Franklin Institute.
Compt. rend. Trav. Lab. Carlsberg	Comptes rendus des Travaux du Laboratoire Carlsberg.	J. Gen. Physiol.	Journal of General Physiology.
Dansk Tidsskr. Farm.	Dansk Tidsskrift for Farmaci.	J. Geol.	Journal of Geology.
Dept. Chem. S. Australia, Bull.	Department of Chemistry, South Australia, Bulletins.	J. Geol. Soc. Tokyo	Chishitsugaku Zasshi (Journal of the Geological Society of Tokyo).
Deut. med. Woch.	Deutsche medizinische Wochenschrift.	J. Hygiene	Journal of Hygiene.
Econ. Geol.	Economic Geology.	J. Indian Chem. Soc.	Quarterly Journal of the Indian Chemical Society.
Econ. Proc. Roy. Dubl. Soc.	Economic Proceedings of the Royal Dublin Society.	J. Indian Inst. Sci.	Journal of the Indian Institute of Science.
Engineering	Engineering.	J. Ind. Hygiene	Journal of Industrial Hygiene.
Eng. and Min. J.	Engineering and Mining Journal.	J. Inst. Brewing	Journal of the Institute of Brewing.
F.P.	French Patent.	J. Inst. Metals	Journal of the Institute of Metals.
Farben-Ztg.	Farben-Zeitung.	J. Inst. Petroleum Tech.	Journal of the Institution of Petroleum Technologists.
Fermentforsch.	Fermentforschung.	J. Iron and Steel Inst.	Journal of the Iron and Steel Institute.
Feuerfest	Feuerfest.	J. Jap. Ceram. Assoc.	Journal of the Japanese Ceramic Association.
Feuerungstechnik	Feuerungstechnik.	J. Landw.	Journal für Landwirtschaft.
G.P.	German Patent.	J. Marine Biol. Assoc.	Journal of the Marine Biological Association of the United Kingdom.
Gas J.	Gas Journal.	J. Med. Res.	Journal of Medical Research.
Gas- u. Wasserfach	Gas- und Wasserfach.	J. Min. Agric.	Journal of the Ministry of Agriculture.
Gas World	Gas World.	J. Path. Bact.	Journal of Pathology and Bacteriology.
Gazzetta	Gazzetta chimica italiana.	J. Opt. Soc. Amer.	Journal of the Optical Society of America.
Geol. Mag.	Geological Magazine.	J. Pharm. Chim.	Journal de Pharmacie et de Chimie.
Giorn. Chim. Ind. Appl.	Giornale di Chimica Industriale ed Applicata.	J. Pharm. Exp. Ther.	Journal of Pharmacology and Experimental Therapeutics.
Gummi-Ztg.	Gummi-Zeitung.	J. Pharm. Soc. Japan	Journal of the Pharmaceutical Society of Japan. (Yakugakuzasshi.)
Hawaii Agric. Exp. Stat. Bull.	Hawaii Agricultural Experiment Station Bulletins.	J. Physical Chem.	Journal of Physical Chemistry.
Helv. Chim. Acta	Helvetica Chimica Acta.	J. Physiol.	Journal of Physiology.
Indian J. Med. Res.	Indian Journal of Medical Research.	J. Physiol. Path. gén.	Journal de Physiologie et de Pathologie générale.
India-rubber J.	India-rubber Journal.	J. Phys. Radium	Journal de Physique et le Radium.
Ind. Eng. Chem.	Industrial and Engineering Chemistry.	J. Pomology	Journal of Pomology and Horticultural Science.
Int. Rev. Sci. Pract. Agric.	International Review of the Science and Practice of Agriculture.		
Int. Sugar J.	International Sugar Journal.		
Iron Steel Inst. Carnegie Schol. Mem.	Iron and Steel Institute, Carnegie Scholarship Memoirs.		
J.C.S.	Journal of the Chemical Society.		

ABBREVIATED TITLE.	JOURNAL.	ABBREVIATED TITLE.	JOURNAL.
J. pr. Chem.	Journal für praktische Chemie.	Mitt. Materialprüf.	Mittheilungen aus dem Materialprüfungsamt zu Gross-Lichterfelde West.
J. Proc. Asiatic Soc. Bengal	Journal and Proceedings of the Asiatic Society of Bengal.	Mitt. med. Ges. Tokyo	Mittheilungen der medizinischen Gesellschaft zu Tokyo.
J. Proc. Roy. Soc. New South Wales	Journal and Proceedings of the Royal Society of New South Wales.	Mitt. Naturforsch. Ges. Halle	Mittheilungen der Naturforschenden Gesellschaft zu Halle.
J. Roy. Agric. Soc.	Journal of the Royal Agricultural Society.	Mitt. Path. Inst. K. Univ. Japan	Mittheilungen aus dem pathologischen Institut der Kaiserlichen Universität zu Sendai, Japan.
J. Roy. Hort. Soc.	Journal of the Royal Horticultural Society.	Monatsh.	Monatshefte für Chemie und verwandte Teile anderer Wissenschaften.
J. Roy. Soc. West Australia	Journal of the Royal Society of West Australia.	Mon. Sci.	Moniteur Scientifique.
J. Roy. Tech. Coll.	Journal of the Royal Technical College (Glasgow).	Month. Not. Roy. Astr. Soc.	Monthly Notices of the Royal Astronomical Society, London.
J. Russ. Phys. Chem. Soc.	Journal of the Physical and Chemical Society of Russia.	Münch. med. Woch. Nachr. Ges. Wiss. Göttingen	Münchener medizinische Wochenschrift. Nachrichten von der Gesellschaft der Wissenschaften zu Göttingen.
J. Scot. Met. Soc.	Journal of the Scottish Meteorological Society.	Nature	Nature.
J. Soc. Arts	Journal of the Royal Society of Arts.	Natuurwetensch. Tijds.	Natuurwetenschappelijk Tijdschrift.
J.S.C.I.	Journal of the Society of Chemical Industry.	Naturwiss.	Die Naturwissenschaften.
J. Soc. Chem. Ind. Japan	Journal of the Society of Chemical Industry, Japan. (Kōgyō Kwagaku Zasshi.)	Naturw. Rdsch.	Naturwissenschaftliche Rundschau.
J. Soc. Dyers and Col.	Journal of the Society of Dyers and Colourists.	New York Agr. Expt. Sta. Bull.	New York Agricultural Experiment Station Bulletins.
J. Soc. Leather Trades' Chem.	Journal of the Society of Leather Trades' Chemists.	New Zealand Dominion Laby. Rept.	New Zealand Dominion Laboratory Reports.
J. Soc. Glass Tech.	Journal of the Society of Glass Technology.	New Zealand J. Sci. Tech.	New Zealand Journal of Science and Technology.
J. S. African Chem. Inst.	Journal of the South African Chemical Institute.	Nova Acta Soc. Sci.	Nova Acta Regiae Societatis Scientiarum Upsaliensis.
J. State Med.	Journal of State Medicine.	Öfvers. Finska Vet.-Soc.	Öfversigt af Finska Vetenskaps-Societätens Förhandlingar, Helsingfors.
J. Textile Inst.	Journal of the Textile Institute.	Oesterr. Chem.-Ztg.	Oesterreichische Chemiker-Zeitung.
J. Usines Gaz.	Journal des Usines à Gaz.	Oversigt Danske Vid. Selsk.	Oversigt over det Kongelige Danske Videnskabernes Selskabs Forhandlingar.
J. Washington Acad. Sci.	Journal of the Washington Academy of Science.	Paper	Paper.
J. West Scotland Iron Steel Inst.	Journal of the West of Scotland Iron and Steel Institute.	Papier-Fabr.	Papier-Fabrikant.
Kali	Kali.	Perf. & Essent. Oil Rec.	Perfumery and Essential Oil Record.
K. Svenska Vet. Akad. Handl.	Kongliga Svenska Vetenskaps Akademiens Handlingar.	Petroleum	Petroleum (German).
Kentucky Exp. Stat. Bull.	Kentucky Experimental Station, Bulletin.	Pflüger's Archiv	Archiv für die gesamte Physiologie des Menschen und der Thiere.
Keram. Rundsch.	Keramisch Rundschau.	Pharm. J.	Pharmaceutical Journal.
Kew Bull.	Kew Bulletin.	Pharm. Weekblad	Pharmaceutisch Weekblad.
Kolloid-Z.	Kolloid-Zeitschrift.	Pharm. Zentr.	Pharmazeutische Zentralhalle.
Kolloidchem. Beih.	Kolloidchemische Beihefte.	Philippine J. Sci.	Philippine Journal of Science.
Kunststoffe	Kunststoffe.	Phil. Mag.	Philosophical Magazine (The London, Edinburgh, and Dublin).
Lancet	The Lancet.	Phil. Trans.	Philosophical Transactions of the Royal Society of London.
Landw. Jahrb.	Landwirtschaftliche Jahrbücher.	Phot. J.	Photographic Journal.
Landw. Versuchs-Stat.	Die landwirtschaftlichen Versuchs-Stationen.	Phot. Korr.	Photographische Korrespondenz.
Louisiana Planter	Louisiana Planter.	Physica	Physica.
Malay. Agric. J.	Malayan Agricultural Journal.	Physical Rev.	Physical Review.
Medd. K. Vetenskaps-akad. Nobel-Inst.	Meddelanden från Kongl.-Vetenskaps-akademiens Nobel-Institut.	Physikal. Z.	Physikalische Zeitschrift.
Medd. on Grönland	Meddelser on Grönland.	Proc. Amer. Acad. Arts Sci.	Proceedings of the American Academy of Arts and Sciences.
Med. Genes. Lab. Weltevreden	Mededeelingen uit het Geneseskundig Laboratorium te Weltevreden.	Proc. Amer. Phil. Soc.	Proceedings of the American Philosophical Society.
Mem. Accad. Lincei.	Memorie della Reale Accademia dei Lincei.	Proc. Amer. Physiol. Soc.	Proceedings of the American Physiological Society.
Mem. Accad. Sci. Torino	Memorie della Reale Accademia delle Scienze di Torino.	Proc. Amer. Soc. Biol. Chem.	Proceedings of the American Society of Biological Chemists.
Mem. Coll. Agric. Kyoto	Memoirs of the College of Agriculture, Kyoto Imperial University.	Proc. Amer. Soc. Civ. Eng.	Proceedings of the American Society of Civil Engineers.
Mem. Coll. Sci. Kyoto	Memoirs of the College of Science, Kyoto Imperial University.	Proc. Amer. Soc. Testing Materials	Proceedings of American Society for Testing Materials.
Mem. Dept. Agric. India	Memoirs of the Department of Agriculture in India.	Proc. Austral. Inst. Min. Met.	Proceedings of the Australasian Institute of Mining and Metallurgy.
Mem. Manchester Phil. Soc.	Memoirs and Proceedings of the Manchester Literary and Philosophical Society.	Proc. Camb. Phil. Soc.	Proceedings of the Cambridge Philosophical Society.
Mém. Poudres	Mémorial des Poudres.	Proc. Durham Phil. Soc.	Proceedings of the University of Durham Philosophical Society.
Metall u. Erz.	Metall und Erz.	Proc. Eng. Soc. W. Pa.	Proceedings of the Engineers' Society of Western Pennsylvania.
Metallurgie	Metallurgie.	Proc. Imp. Acad. Tokyo	Proceedings of the Imperial Academy (Tokyo).
Metrop. Water Bd. Rep.	Metropolitan Water Board Reports.	Proc. Inst. Civ. Eng.	Proceedings of the Institution of Civil Engineers.
Milch. Zentr.	Milchwirtschaftliches Zentralblatt.		
Min. Mag.	Mineralogical Magazine and Journal of the Mineralogical Society.		

ABBREVIATED TITLE.	JOURNAL.	ABBREVIATED TITLE.	JOURNAL.
Proc. Inst. Mech. Eng.	Proceedings of the Institution of Mechanical Engineers.	Soil Sci.	Soil Science.
Proc. K. Akad. Wetensch. Amsterdam	Koninklijke Akademie van Wetenschappen te Amsterdam. Proceedings (English version).	Sprechsaal.	Sprechsaal.
Proc. Nat. Acad. Sci.	Proceedings of the National Academy of Sciences.	Stahl u. Eisen.	Stahl und Eisen.
Proc. Nova Scotia Inst. Sci.	Proceedings of the Nova Scotia Institute of Science.	Stain Tech.	Stain Technology.
Proc. Phil. Soc. Glasgow	Proceedings of the Glasgow Philosophical Society.	Staz. sper. agr. ital.	Stazioni sperimentali agrarie italiane.
Proc. Physical Soc.	Proceedings of the Physical Society of London.	Svensk Kem. Tidskr.	Svensk Kemisk Tidskrift.
Proc. Physiol. Soc.	Proceedings of the Physiological Society.	Tech. Rep. Tôhoku Imp. Univ.	Technology Reports of the Tôhoku Imperial University, Sendai, Japan.
Proc. Roy. Inst.	Proceedings of the Royal Institution of Great Britain.	Tekn. Tidskr.	Teknisk Tidskrift.
Proc. Roy. Irish Acad.	Proceedings of the Royal Irish Academy.	Textilber.	Melliand's Textilberichte über Wissenschaft, Industrie und Handel.
Proc. Roy. Soc.	Proceedings of the Royal Society.	Tonind.-Ztg.	Tonindustrie-Zeitung.
Proc. Roy. Soc. Edin.	Proceedings of the Royal Society of Edinburgh.	Trans. Amer. Electrochem. Soc.	Transactions of the American Electrochemical Society.
Proc. Roy. Soc. Med.	Proceedings of the Royal Society of Medicine.	Trans. Amer. Inst. Chem. Eng.	Transactions of the American Institute of Chemical Engineers.
Proc. Roy. Soc. Queensland	Proceedings of the Royal Society of Queensland.	Trans. Amer. Inst. Metals	Transactions of the American Institution of Metals.
Proc. Roy. Soc. Tasmania	Proceedings of the Royal Society of Tasmania.	Trans. Amer. Inst. Min. Eng.	Transactions of the American Institute of Mining Engineers.
Proc. Sci. Assoc., Vizianagram	Proceedings of the Science Association, Maharajah's College, Vizianagram.	Trans. Ceram. Soc.	Transactions of the Ceramic Society.
Proc. Soc. Exp. Biol. Med.	Proceedings of the Society for Experimental Biology and Medicine.	Trans. Faraday Soc.	Transactions of the Faraday Society.
Proc. U.S. Nat. Mus.	Proceedings of the United States National Museum.	Trans. Inst. Min. and Met.	Transactions of the Institution of Mining and Metallurgy.
Pub. Fac. Sci. Univ. Masaryk.	Publications de la Faculté des Sciences de l'Université Masaryk (Spisy vydávané Přírodovědeckou fakultou Masarykovy University).	Trans. N. Eng. Inst. Min. and Met.	Transactions of the North of England Institute of Mining and Metallurgy.
Pulp and Paper Mag.	Pulp and Paper Magazine of Canada.	Trans. New Zealand Inst.	Transactions of the New Zealand Institute.
Quart. J. Geol. Soc.	Quarterly Journal of the Geological Society.	Trans. Nova Scotia Inst. Sci.	Transactions of the Nova Scotia Institute of Science.
Quart. J. Med.	Quarterly Journal of Medicine.	Trans. Roy. Irish Acad.	Transactions of the Royal Irish Academy.
Rec. Australian Mus.	Records of the Australian Museum.	Trans. Roy. Soc. Canada	Transactions of the Royal Society of Canada.
Rec. trav. bot. Néerland	Recueil des travaux botaniques Néerlandais.	Trans. Roy. Soc. Edin.	Transactions of the Royal Society of Edinburgh.
Rec. trav. chim.	Recueil des travaux chimiques des Pays-Bas.	Trans. Roy. Soc. S. Africa.	Transactions of the Royal Society of South Africa.
Rend. Accad. Sci. Fis. Mat. Napoli	Rendiconto dell' Accademia delle Scienze Fisiche e Matematiche, Napoli.	Tsch. Min. Mitt.	Tschermak's Mineralogische Mitteilungen.
Rend. Ist. Lomb. Sci. Lett.	Rendiconti dell' Reale Istituto Lombardo di Scienze e Lettere.	U.S. Bur. Mines, Bull. and Tech. Papers.	United States Bureau of Mines, Bulletins and Technical Papers.
Rep. Aust. Assoc. Sci.	Report of the Australian Association for the Advancement of Science.	U.S. Bur. Plant Ind.	United States Bureau of Plant Industry.
Rep. Brit. Assoc.	Report of the British Association for the Advancement of Science.	U.S. Dept. Agric. Bull.	United States Department of Agriculture Bulletins.
Rev. chim.	Revue chimique . . . Oficijelni organ udruženja Jugoslavenskih Kemičara.	U.S. Hyg. Labor. Bull.	United States Hygienic Laboratory Bulletins.
Rev. gén. Colloid.	Revue générale des Colloïdes.	U.S.P.	United States Patent.
Rev. Gén. Mat. Col.	Revue Générale des Matières Colorantes.	Ukraine Chem. J.	Ukraine Chemical Journal.
Rev. Mét.	Revue de Métallurgie.	Univ. Illinois Bull.	University of Illinois Bulletins.
Rocz. Chem.	Roczniki Chemji organ Polskiego Towarzystwa Chemicznego.	Utah Agric. Coll. Exp. Stat. Bull.	Utah Agricultural College Experiment Station Bulletins.
Schweiz. Chem.-Ztg. Science	Schweizerische Chemiker-Zeitung.	Verh. Geol. Reichsanst. Wien	Verhandlungen der geologischen Reichsanstalt in Wien.
Sci. Ind. Rep. Roure-Bertrand Fils	Scientific and Industrial Reports of Roure-Bertrand Fils.	Verh. Ges. deut. Naturforsch. Aertze	Verhandlungen der Gesellschaft deutscher Naturforscher und Aertze.
Sci. Papers Inst. Phys. Chem. Res. Tokyo	Scientific Papers of the Institute of Physical and Chemical Research, Tokyo.	Wiss. Veröff. Siemens-Konz.	Wissenschaftliche Veröffentlichungen aus dem Siemens-Konzern.
Sci. Proc. Roy. Dublin Soc.	Scientific Proceedings of the Royal Dublin Society.	Woch. Brau.	Wochenschrift für Brauerei.
Sci. Rep. Tôhoku Imp. Univ.	Science Reports, Tôhoku Imperial University.	Z. anal. Chem.	Zeitschrift für analytische Chemie.
Sci. Trans. Roy. Dublin Soc.	Scientific Transactions of the Royal Dublin Society.	Z. angew. Chem.	Zeitschrift für angewandte Chemie.
Sitzungsber. Akad. Wiss. Wien	Sitzungsberichte der Akademie der Wissenschaften, Wien.	Z. anorg. Chem.	Zeitschrift für anorganische und allgemeine Chemie.
Sitzungsber. Heidelberger Akad. Wiss.	Sitzungsberichte der Heidelberger Akademie der Wissenschaften.	Z. Biol.	Zeitschrift für Biologie.
Sitzungsber. Preuss. Akad. Wiss. Berlin	Sitzungsberichte der Preussischen Akademie der Wissenschaften zu Berlin.	Z. deut. bot. Ges.	Zeitschrift der deutschen botanischen Gesellschaft.
		Z. deut. Geol. Ges.	Zeitschrift der deutschen Geologischen Gesellschaft.
		Z. deut. Oel- und Fett-Ind.	Zeitschrift der deutschen Oel- und Fett-Industrie.
		Z. Elektrochem.	Zeitschrift für Elektrochemie.
		Z. exp. Path. Ther.	Zeitschrift für experimentelle Pathologie und Therapie.
		Z. ges. Brauw.	Zeitschrift für das gesamte Brauwesen.
		Z. ges. exp. Med.	Zeitschrift für die gesamte experimentelle Medizin.
		Z. ges. Schiess- u. Sprengstoffw.	Zeitschrift für das gesamte Schiess- und Sprengstoffwesen.
		Z. Hyg.	Zeitschrift für Hygiene und Infektionskrankheiten.

ABBREVIATED TITLE.	JOURNAL.
Z. Instrument.	Zeitschrift für Instrumentenkunde.
Z. Krt.	Zeitschrift für Kristallographie.
Z. Metallk.	Zeitschrift für Metallkunde.
Z. Pflanz. Düng.	Zeitschrift für Pflanzenernährung und Düngung.
Z. Physik	Zeitschrift für Physik.
Z. physikal. Chem.	Zeitschrift für physikalische Chemie, Stöchiometrie und Verwandtschaftslehre.
Z. physikal. chem. Uerr.	Zeitschrift für den physikalischen und chemischen Unterricht.
Z. physiol. Chem.	Hoppe-Seyler's Zeitschrift für physiologische Chemie.
Z. prakt. Geol.	Zeitschrift für praktische Geologie.
Z. Sauerstoff Stickstoff Ind.	Zeitschrift für Sauerstoff und Stickstoff Industrie.

ABBREVIATED TITLE.	JOURNAL.
Z. Spiritusind.	Zeitschrift für Spiritusindustrie.
Z. Unters. Lebensm.	Zeitschrift für Untersuchung der Lebensmittel.
Z. Ver. deut. Zucker-Ind.	Zeitschrift des Vereins der deutschen Zucker-Industrie.
Z. wiss. Mikrosk.	Zeitschrift für wissenschaftliche Mikroskopie und mikroskopische Technik.
Z. wiss. Phot.	Zeitschrift für wissenschaftliche Photographie, Photophysik und Photochemie.
Z. Zuckerind. Czecho-slov.	Zeitschrift für die Zuckerindustrie der Cechoslovakischen Republik.
Zellstoff u. Papier	Zellstoff und Papier.
Zentr. Bakt.	Centralblatt für Bakteriologie, Parasitenkunde und Infektionskrankheiten.
Zentr. Zuckerind.	Zentralblatt für Zuckerindustrie.



ERRATA.

ABSTRACTS A., 1926 (PURE CHEMISTRY).

page	col.	line	
1215	1	5*	<i>For "BRAUN" read "BRANN."</i>
1254	1		In the formula for 2-o-violone, the O at the left should form part of the ring structure of the pyrylium nucleus.

1927.

page	col.	line	
1	1	25	<i>For "WINTER" read "WINTNER."</i>
8	2	32	<i>For "DE MALLEMAN" read "DE MALLEMANN."</i>
61	1	16* and 18*	<i>For "5-hydroxyfurfuraldehyde" read "5-hydroxymethylfurfuraldehyde."</i>
110	2	24	<i>For "GUERASIMOV" read "GERASIMOV."</i>
126	1	24*	<i>For "SANDER" read "JANDER."</i>
136	1	8*	<i>For "PRINGSHEIM" read "STAUDINGER."</i>
183	2	13*	Insert third author's name R. A. MORTON.
194	1	17	<i>For "HUOT" read "HOVOT."</i>
248	1	6* and 9*	<i>For "Asclepius syriaca" read "Asclepias syriaca."</i>
316	2	19	<i>For "BLUH" read "BLÜH."</i>
318	2	23	<i>For "ROSENCRANS" read "ROSECRANS."</i>
524	2	30*	<i>For "MUCHINE" read "MUCHIN."</i>
534	2	25*	<i>For "CERNATESCO" read "CERNATESCU."</i>
583	1	26	<i>For "HERZMAN" read "HERTZMAN."</i>
594	2	3	<i>For "CHALLOFF" read "CHAIKOFF."</i>
689	2	16	<i>For "GOBZOW" read "GOLZOV" and for "JANKOWSKY" read "JANKOVSKY."</i>
746	1	23	<i>For "LESSING" read "LESSNIG."</i>
789	9	19 and 22	<i>For "Ephredra" read "Ephedra."</i>
799	9	21	<i>For "ephredine" read "ephedrine."</i>
810	2	17* and 19*	<i>For "GRAVIOLA" read "GAVIOLA."</i>
820	1	7	<i>For "MATUGAMA" read "MATUYAMA."</i>
957	2	21*	<i>For "aaβ-triphenyl-β-methyl-Δa-propene" read "aaβ-triphenyl-Δa-propene."</i>
957	2	19*	<i>For "γ-bromo-aaβ-triphenyl-β-methyl-Δa-propene" read "γ-bromo-aaβ-triphenyl-Δa-propene."</i>
1046	1	9*	<i>For "PERIETEANU" read "PERIETZEANU."</i>
1137	1	10	<i>For "DIACHKOVSKI" read "DIJATZCHKOVSKI."</i>
1148	1	28*	<i>For "LAHORKA" read "ZAHORKA."</i>

ABSTRACTS B., 1927 (APPLIED CHEMISTRY).

page	col.	line	
3	1	5*	<i>For "WIGGINGTON" read "WIGGINTON."</i>
36	1	20*	<i>For "E.P. 206,639" read "E.P. 260,639."</i>
76	1	4*	<i>For "SPEIRS" read "SEIERS."</i>
77	2	16	<i>For "OSTRAGA" read "OSTROGA."</i>
94	1	18	<i>For "KEEPR" read "KEEFER."</i>
159	2	25	<i>For "ELECTROLUX SERVEL" read "ELECTROLUX SERVEL."</i>
189	2	17	<i>For "UNITED STATES REFINING Co." read "UNITED STATES METALS REFINING Co."</i>
264	2	1*	<i>For "PICKARD" read "PICARD."</i>
376	2	26	<i>For "NOYADEL" read "NOVADEL."</i>
419	2	22	<i>For "HERMANN" read "HERRMANN."</i>
458	1	19	<i>For "POLL" read "PÖLL."</i>
468	2	8	<i>For "BLUMNER" read "BLÜMNER."</i>
500	2	8*	<i>For "FARBRE" read "FABRE."</i>
547	1	20	<i>For "JAKOSKY" read "JAKOWSKY."</i>
566	1	24*	<i>For "WOLTE" read "NOLTE."</i>
680	1	16	<i>For "SCHWATZ" read "SCHWARTZ."</i>
685	1	19	<i>For "basic" read "direct cotton."</i>
685	1	24	<i>For "Acid" read "Sulphur."</i>
701	2	26*	<i>For "274,196" read "274,198."</i>
724	2	20*	<i>For "DODWELL" read "DOWDELL."</i>
806	2	18*	<i>For "HYDROCARBON REFINING PROCESS Co." read "HYDROCARBON REFINING PROCESS Co."</i>
812	2	5*	<i>For "JELLINCK" read "JELLINER."</i>
902	2	11*	<i>For "E.P. 287,039" read "E.P. 278,039."</i>

* From bottom.